CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, June 3, 1909.

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CONSTRUCTION NEWS.

Plans and Specifications on File.

(denotes that this work is advertised in Engineering News.)*

The following plans (P.) and Specifications (S.) are on file (for reference only unless otherwise noted) at office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.	Work.	See issue.
6- 5	Coal-conveyor system, Key West, Fla. (S.)	5- 6
6- 7	Dredging, Baltimore, Md. (S.)	5-20
6- 7	Standpipe, Syracuse, N. Y. (P. & S.)	5-27
6- 8*	Abutment, piers, etc., Wheeling, W. Va. (S.)	5- 6
6- 9	High-pressure mains, New York (P. & S.)	5-27
6-10	Theater, Houston, Tex. (P. & S.)	5-20
6-10*	Jetty, Galveston, Tex. (S.)	5-20
6-11*	Heating, etc. Lead, S. Dak. (P. & S.)	5-27
6-15*	Dredging, New Haven, Conn. (S.)	5-27
6-19	Dikes, Vallejo, Cal. (S.)	5-13
6-21	Water disposal plant, North Chicago, Ill (S.)	6- 3
6-26	Turbo-alternators, New York (S.)	5-27
6-26	Crane, Norfolk, Va. (S.)	6- 3
6-26	Elec. equip., Phila, Pa. (S.)	6- 3
6-26	Boilers, etc., Vallejo, Cal. (S.)	5-20
6-26	Power plant piping, Boston, Mass. (S.)	5-27
6-26	Air compressors, Wash., D. C. (S.)	5-27

List of Contracts Pending.

LIGHT, HEAT AND POWER PLANTS.

6- 5	Lighting, Washington, D. C.	6- 3
6- 8	Lighting, Vincennes, Ind.	5-13
6- 7	Elec. equipment, Washington, D. C.	6- 3
6- 7	Elec. equipment, New York	5-27
6- 7	Lamps, lighting, New York	5-27
6- 9*	Lighting, Middletown, N. Y.	5-27
6- 9	Power plant, etc., New York	6- 3
6-10	Electrical equip., Washington, D. C.	6- 3
6-14	Elec. equip. New York	6- 3
6-14	Cable, Boston, Mass.	6- 3
6-14	Cable, Boston, Mass.	5-20
6-15	Lighting, Ft. Totten, N. Y.	5-27
6-15	Lighting, Ft. Hamilton, N. Y.	5-27
6-15	Fixtures, New Orleans, La.	6- 3
6-15	Heating plant, Crawfordsville, Ind.	6- 3
6-15	Power plant, Ft. Leavenworth, Kan.	5-27
6-19*	Gas holder, Kingston, Ont.	5-27
6-19	Lighting, Evansville, Ind.	6- 3
6-21*	Heating plant, Ft. Sill, Okla.	5-27
6-21*	Light fixtures, West Point, N. Y.	6- 3
6-26	Elec. equip., Philadelphia, Pa.	6- 3
6-26	Turbo-alternators, New York	5-27
6-26	Power plant, Boston, Mass.	5-27
6-26	Power equip., Bremerton, Wash.	5-27
6-26	Boilers, etc., Vallejo, Cal.	5-20
7- 1*	Lighting, Boston, Mass.	5- 6

BRIDGES.

6- 3	Bridge work, Hackensack, N. J.	6- 3
6- 5	Bridge, Provo, Utah	6- 3
6- 5	Bridge work, Cleveland, Ohio	5-13
6- 5	Superstructure, Dayton, Ohio	5-27
6- 7	Abutment, Colony, Kan.	6- 3
6- 7	Bridge, Ludlow, Mass.	6- 3
6- 7	Bridge bonds, Hazelhurst, Miss.	6- 3
6- 7	Bridges, Richmond, Mo.	6- 3
6- 7	Bridges, Columbus, Ind.	5-27
6- 7	Bridges, Bluffton, Ind.	5-27
6- 7	Bridge, Indianapolis, Ind.	5-20
6- 8	Bridge work, Albion, Ind.	6- 3
6- 8	Bridges, Mexico, Mo.	5-27
6- 8	Bridges, Britton, S. Dak.	5-27
6- 8	Bridges, Vincennes, Ind.	5-27
6- 8	Bridge work, Upper Sandusky, O.	5-27
6- 8	Viaduct, Knoxville, Tenn.	6- 3
6- 9	Bridge, Atlantic City, N. J.	6- 3
6- 9	Bridge, Ocean City, N. J.	6- 3
6- 9	Bridge, Hinsdale, Mont.	5-20
6- 9	Bridges, York, Pa.	6- 3
6- 9*	Bridges, etc., Philadelphia, Pa.	5-13
6- 9	Removing bridge, etc., Marietta, Wash.	5-20
6-10	Bridge, Spartanburg, S. C.	6- 3
6-10	Bridge, Weatherford, Tex.	6- 3
6-12	Bridge, Greenville, Ohio	6- 3
6-14	Culverts, Indianapolis, Ind.	6- 3
6-15	Bridge piling, Minot, N. Dak.	6- 3
6-15*	Bridge work, Philadelphia, Pa.	5-20
6-17	Bridge repair, New York	5-27
6-17*	Bridges, Philadelphia, Pa.	6- 3
6-18	Bridge, Cincinnati, Ohio	5-27
6-19	Concrete arch, Lima, Ohio	6- 3
6-20*	Bridge, Portland, Ore.	6- 3
6-22	Bridges, Dickinson, N. Dak.	6- 3
6-22	Overhead crossing, Cleveland, Ohio	6- 3
7- 1	Bridge, Toledo, Ohio	4-29
7-10	Bridge, Hailey, Idaho	5-20

BUILDINGS.

6- 5	Building, Richmond, Va.	5-20
6- 5	School, Springfield, Ohio	5-20
6- 6	Court-house, Lethbridge, Alta.	5-27
6- 7	Schools, New York	5-27
6- 7	Asylum, Rome, N. Y.	5-27
6- 7	Schools, Ft. Wayne, Ind.	5-20
6- 7*	Post-office, etc., Fernandina, Fla.	5- 6
6- 7	Quarters, Ft. H. G. Wright, N. Y.	5-13
6- 7	Schools, Albany, N. Y.	6- 3
6- 7	Quarters, Fort Winfield Scott, Cal	6- 3
6- 8	Morgue, New York	6- 3
6- 9	Post-office, Clifton Forge, Va.	5-13
6- 9*	Vacuum system, Detroit, Mich.	5-20
6- 9	Buildings, Ft. Slocum, N. Y.	5-20
6- 9	Heating, etc., Ft. Crook, Neb.	5-27
6- 9	Buildings, Ft. Wingate, N. Mex.	5-27
6-10*	Quarters, Boston, Mass.	5-27
6-10*	Quarters, etc., Fort Sill, Okla.	5-13
6-10	Engine house, etc., Loggieville, N. B. (Mfg. Pl.)	6- 3
6-10	Store, Poughkeepsie, N. Y.	6- 3
6-11*	Heating, etc., Lead, S. Dak.	5-27
6-14	Schools, New York	6- 3
6-14	School, Williamsburg, Ind.	6- 3
6-15	Refrigerating, Delaware, Ohio, (Mfg. Pl.)	6- 3
6-15	School, Alexandria, La.	5-13
6-15	Post-office, Mayfield, Ky.	5-13
6-15	School, Montgomery, Ala.	5-13
6-15	Laundry, New York..(Mfg. Pl.)	6- 3
6-16*	Post-office, London, Ky.	5-20
6-18	Soldiers' Home, La Fayette, Ind.	6- 3
6-19	Buildings, Carthage, Ohio	5-27
6-21	Post-office, Gulfport, Miss.	5-27
6-28*	Interior work, San Francisco, Cal.	5-27
6-29	Post-office, Clarinda, Iowa	6-13
6-30*	Post-office, Moscow, Idaho	5.27
6-30*	Quarters, Ft. Monroe, Va.	6- 3
6-31	Masonic temple, Athens, Ohio	5-20
7-15*	Buildings, China (Foreign)	5-27
7-16*	Post-office, Corsicana, Tex.	6- 3

WATER-WORKS.

6- 3	Supply pipes, Chicago, Ill.	6- 3
6- 4	Water pipe, Lima, Ohio	6- 3
6- 5	Filter, etc., Coccoa, Ga.	6- 3
6- 7	Water main, East Grand Forks, Minn.	6- 3
6- 7	Water mains, Chaska, Minn.	6- 3
6- 7	Water main, Hoboken, N. J.	6- 3
6- 7	Water tank, Minerva, Ohio	5-20
6- 7	Reservoir, Jasper, Ind.	5-27
6- 7*	Pipe, etc., Hartshorne, Okla.	5-27
6- 7	Standpipe, Syracuse, N. Y.	5-27
6- 7	Gate-valves, Albany, N. Y.	6- 3
6- 8	Mains, Fort Riley, Kan.	5-27
6- 8*	W.-wks. additions, Norway, Mich	5-20
6- 8	Boiler, National Soldiers' Home, Tenn.	5-13
6- 8	Water system, etc., North Chicago, Ill.	6- 3
6- 8	Piping wells, Ft. McPherson, Ga.	6- 3
6- 9	Hydrants, San Francisco, Cal.	4-29
6- 9*	Reservoirs, Clearfield, Pa.	5-20
6- 9	Mains, New York	5-20
6- 9	Well, etc., Columbus, Ohio	5-20
6- 9	High-pressure mains, New York	5-27
6- 9	Pumps, etc., Baltimore, Md.	6- 3
6-10	Store, Poughkeepsie, N. Y.	6- 03
6-11	Filter-house, Plattsburg Barracks, N. Y.	5-27
6-11	Water-works, St. Edward, Neb.	5-27
6-12	Water-works, Mt. Healthy, Ohio	6- 3
6-14	Water-works, Plainville, Kan.	5-27
6-14*	Pumps, etc., Peterborough, Ont.	5-13
6-14	Canal, etc., Porto Rico (U. S. Possess.)	5-13
6-15*	Pipe, etc., Cheyenne, Wyo.	5-27
6-15*	Pipe, etc., Okemah, Okla.	5-27
6-16	Water-works, Clovis, N. Mex.	6- 3
6-16	Pump-house, etc., Fort Hunt	6- 3
6-16	Water mains, New York	6- 3
6-17*	Filters, etc., Cohoes, N. Y.	6- 3
6-21	Water disposal plants, North Chicago, Ill.	6- 3
6-21*	Water-works, Carmen, Okla.	6- 3
6-22*	Relining reservoir, etc., Reading, Pa.	6- 3
6-30*	Quarters, Ft. Monroe, Va.	6- 03
7- 1*	Valves, hydrants, Manila	5- 6
7- 2*	Dams, etc., Fort Meade, S. Dak.	6- 3
7-10*	Wasteway, Sunnyside, Wash.	5-27

SEWERS.

6- 3	Sewers, St. Paul, Minn.	6- 3
6- 3	Sewers, Chicago, Ill.	6- 3
6- 3	Sewers, New Rochelle, N. Y.	6- 3
6- 4	Sewerage, Chicago, Ill.	6- 3
6- 5	Sewers, Cedar Rapids, Iowa	6- 3
6- 5	Sewerage system, Marietta, Ga.	5-20
6- 7	Sewers, Newburgh, Ohio	5-27
6- 7*	Sewers, Oneonta, N. Y.	6- 3
6- 7	Sewers, East Grand Forks, Minn.	6- 3
6- 7	Sewer, Albany, N. Y.	6- 3
6- 8	Sewer, Toronto, Ont.	5-20
6- 9	Sewer, Hoboken, N. J.	5-27
6- 9*	Sewer, Toronto, Ont.	5- 6
6-10	Sewers, Albert Lea, Minn.	5-13
6-10	Sewers, etc., New York	6- 3
6-10	Sewers, Montreal, Que.	6- 3
6-10	Sewer, etc., Angola, Ind.	6- 3
6-10*	Sewers, South Nyack, N. Y.	6- 3
6-14*	Sewers, Wash., D. C.	5-27
6-15	Pipe sewer, Plymouth, Wis.	5-20
6-15	Sewer system, Manhattan, Kan.	6- 3
6-15*	Sewer bonds, Newton, Va.	6- 3
6-16	Sewers, New York	-03
6-18	Sewer, South Bend, Ind.	6- 3
6-18*	Sewer, Louisville, Ky.	6- 3
6-25*	Sewer, Louisville, Ky.	6- 3
7- 2*	Sewer, Louisville, Ky.	6- 3
7-10*	Sewers, Albuquerque, N. Mex.	5-27

STREETS AND ROADS.

6- 5	Road, Haymarket, Va.	6- 3
6- 5	Road impvt., Greenville, Ohio	6- 3
6- 5	Pavements, etc., Cedar Rapids, Iowa	6- 3
6- 6	Repairing, etc., Steubenville, Ohio	6- 3
6- 7	Macadam, Andrews, N. C.	6- 3
6- 7	Grading, St. Paul, Minn.	6- 3
6- 7	Street impvt., Albany, N. Y.	6- 3
6- 7	Road, Greenfield, Ind.	6- 3
6- 7	Cement walks, etc., Grand Forks, N. Dak.	5-27
6- 7	Street impvt., White Bear Lake, Minn	5-20
6- 7	Roads, Indianapolis, Ind.	5-20
6- 7	Grading, etc., Montclair, N. J.	5-20
6- 7	Road, Brookville, Ind.	5-13
6- 7	Road, Vernon, Ind.	5-13
6- 7	Road, Liberty, Ind.	5-13
6- 7	Grading, Lawrence, Kan.	5-20
6- 8	Road, Vincennes, Ind.	5-13
6- 8	Roads, Indianapolis, Ind.	5-20
6- 8*	Road, Ocean City, N. J.	5-27
6- 8	Sidewalks, etc., Pelham, N. Y.	6- 3
6- 8	Grading, etc., Columbus, Ohio	6- 3
6- 8	Road, Washington, Ind.	6- 3
6- 9*	Road, Camden, N. J.	5-27
6- 9	Road, Freehold, N. J.	5-27
6- 9	Grading, etc., Atlantic City, N. J.	5-27
6- 9	Roads, Indianapolis, Ind.	5-20
6- 9*	Paving plant, Kansas City, Mo.	6- 3
6- 9	Regulating, etc., Brooklyn, N. Y.	6- 3
6-10	Paving etc., New York	6- 3
6-10*	Stone road, Elizabeth, N. J.	5-20
6-10	Terrace grading, etc., Fort Leavenworth, Kan.	5-27
6-10*	Paving, Norfolk, Va.	6- 3
6-11	Road impvt., Pittsburg, Pa.	6- 3
6-11*	Highways, Baltimore, Md.	6- 3
6-11	Tarvia, Cincinnati, Ohio	5-27
6-12*	Grading, etc., Somerville, N. J.	5-27
6-13*	Roads, etc., Ridgefield Park, N. J.	6- 3
6-14	Regulating, etc., New York	6- 3
6-14	Grading, etc., Arlington, Va.	6- 3
6-15	Grading, etc., Greensburgh, N. Y.	6- 3
6-15	Grading, etc., Mount Pleasant, Pa	6- 3
6-15	Paving, Manistee, Mich.	6- 3
6-15	Street impvt., St. Louis, Mo.	6- 3
6-15	Road, Terre Haute, Ind.	6- 3
6-15*	Grading, etc., Havre de Grace, Md.	5-27
6-15	Grading, etc., Piqua, Ohio	5-20
6-15	Paving, etc., New York	6- 3
6-16	Regulating, etc., Brooklyn, N. Y.	6- 3
6-16	Grading, etc., Cleveland, Ohio	6- 3
6-18	Grading etc., Columbus, Ohio	6- 3
6-18	Paving, South Bend, Ind.	6- 3
6-22*	Excavation, etc., Ft Totten, N. Y.	6- 3
6-25*	Roads, etc., Ft. Dupont, Del.	6- 3

MISCELLANEOUS.

6- 4	Ditch, Sioux Falls, S. Dak.	6- 3
6- 5	Coal-conveyor system, Key West, Fla.	5- 6
6- 7	Dredging, Baltimore, Md.	5-20
6- 7*	Stone, etc., Superior, Wis.	5-13
6- 7	Repairing ferryboats, New York.	5-27
6- 8*	Dredging, New York	5-27
6- 8*	Abutment, piers, etc., Wheeling, W. Va	5-13
6- 8*	Riprap, Ashland, Wis.	5-13
6- 9	Air compressor, Atlanta, Ga.	5-13
6- 9	Compressor plant, Brownsville, Pa.	5-20
6- 9	Sweeping machines, New York	5-27
6-10	Seawall, San Francisco, Cal.	5-20
6-10*	Jetty, Galveston, Tex.	5-13
6-11	Dredging, Chicago, Ill.	5-27
6-14*	Canal, Porto Rico (U. S. Poss.)	5- 6
6-14	Garbage privilege, New York	6- 3
6-14	Wall, Washington, D. C.	6- 3
6-15	'Phone line, Govan, Sask	6- 3
6-15*	Dredging, New London, Conn.	6- 3
6-15*	Light system, Ft. Totten, N. Y.	5-20
6-15	Steamers, Wash., D. C.	5-27
6-16*	Abutment, piers, etc., Wheeling, W. Va.	5-20
6-16*	Light station, Wilmington, Del.	5-20
6-16	Tower, Wilmington, Del.	6- 3
6-17	Playground, Brooklyn, N. Y.	6- 3
6-19	Dikes, Vallejo, Cal.	5-13
6-21*	Cement, Cincinnati, Ohio	5-27
6-21	Levee, Memphis, Tenn.	6- 3
6-22	Ferry steamer, Wash., D. C.	6- 3
6-22	Retaining walls, New York	5-27
6-22*	Barge Canal, Albany, N. Y.	5-27
6-24*	Dredging, New York	5-27
6-25*	Seawall, New York	5-27
6-26	Air compressors, Wash., D. C.	5-27
6-26*	Steel bars, cement..Porto Rico.	6- 3
6-26	Crane, Norfolk, Va.	6- 3
6-28*	Dredging, Port Chester, N. Y.	5-27
6-28*	Causeway, Galveston, Tex.	5- 6
6-29*	Dredging, Newport, R. I.	6- 3
6-29*	Supplies, Panama	5-27
7- 1*	Valves, etc., Panama	6- 3
7- 9	Drilling machines, Transvaal (Foreign)	5-27

EXAMINATIONS.

6- 9	Elec. Expert, Wash., D. C.	5-27
6-16	Steam Engr., Macon, Ga.	5-27

RAILWAYS.

(denotes that this work is advertised in Engineering News.)*

ALBERTA & NORTHWESTERN.—E. A. James, formerly Gen. Mgr. of the Canadian Northern R. R. Co., has been appointed Gen. Mgr. of this line, and announces that construction will be started at once.

ATCHISON, TOPEKA & SANTA FE.—Contract has been let to A. MOORE, of Newton, Kan., it is stated, for building the first 40 miles of the Santa Fe's new cut-off from Texico, N. Mex., and Brownwood, Tex., which will give the Santa Fe a short line between Los Angeles and Galveston. Texico is at the eastern end of the Belen cut-off, where it joins the Santa Fe's Panhandle line. The new extension will run 300 miles southeast from Texico to Brownwood, in central Texas, where it will reach a branch of the Gulf, Colorado & Santa Fe Ry., running west from Temple.

BALTIMORE & OHIO.—ALLEN & KEFAUVER, 846 Equitable Bldg., Baltimore, Md., who have contract for railway improvements at Grafton, W. Va., advise us that the Parkersburg (W. Va.) address given in last week's issue is not correct, but as above.

BELLINGTON BAY & BRITISH COLUMBIA.—A new cut-off will be built by this company, which will run around the waterfront of Bellingham, Wash., joining the present line near Wahl. Although the distance is but four miles, the total cost will be in excess of $100,000. The building of the line, however, will eliminate one of the heaviest grades in the country, it is said, besides giving the line additional water-front facilities. H. B. Paige is Supt., Bellingham.

CANADIAN NORTHERN.—The contract for 25 miles of the line between Edmonton, Alta., and Athabasca Landing, has been let to MALCOLM McGRIMMON, of Edmonton, Alta.

CHARLOTTE HARBOR & NORTHERN.—We are officially advised that this company is in the market for the following equipment for its Plant City extension, which is now under construction: Five locomotives, six passenger coaches, two baggage and express cars, two postal cars, 150 freight cars. Company will also receive bids for 180 miles of fence. L. M. Fouts, Second Vice-Pres. and Gen. Mgr., 317 Duval Bldg., Jacksonville, Fla.

CHERRYVALE, OKLAHOMA & TEXAS.—We are officially informed that contract for first 50-mile section of this railway has been let to the CONTINENTAL CONSTRUCTION CO., of Caney, Kan., of which J. H. Brewster, of Independence, Kan., is Pres. Work will be sublet soon in 5-mile sections. This line, when built, will be 235 miles in length, running from Cherryvale, Kan., to Geary, Okla., via Pawhuska, Blackburn, Perry and Guthrie. A branch line will run southwest to Fayetteville, Ark., a distance of 150 miles. The project has been financed and right-of-way partly secured. Surveys for first 50 miles are made. B. J. Dalton, Lawrence, Kan., is Ch. Engr., and S. M. Porter, Pres. of the railway company.

CHESAPEAKE & OHIO.—The MATHEWS-CURTIS CO., Inc., Lee Hall, Va., has the contract for double-tracking the Chesapeake & Ohio Ry., between Walkers, Va., and Mountcastle. The work includes about 150,000 cu. yds. of earth excavation, about 150,000 cu. yds. and 400 cu. yds. of concrete masonry. FRANK PARKE, Boulevard, Va., has the sub-contract for the masonry.

FITZGERALD & NORTHWESTERN.—This company has been organized at Fitzgerald, Ga. Two routes are being considered, and the line will be about 80 miles long, crossing the Seaboard Air Line at or near Rochelle, Ga.; the Gulf line at or near Pineview, and possibly touching Hawkinsville. The question of building from Fitzgerald southward to St. Marys has not yet been taken up. W. R. Bowen, J. G. Knapp, M. W. Garbutt and D. B. Jay, of Fitzgerald; J. J. Dorminey, of Broxton, and T. S. Price, of Douglas, Ga., are the promoters. Mr. Bowen is Pres. pro tem, and Mr. Knapp, Secy.

FLORIDA EAST COAST.—A mortgage has been filed upon the Florida East Coast Ry., including the Key West extension, to Joseph C. Slater, as trustee, of New York, to enable the railway company to borrow $40,000,000, which will be used to cancel two former bond issues aggregating $16,000,000, and the remainder to be used in railroad building. J. R. Parrott is Vice-Pres. and Gen. Mgr., St. Augustine, Fla.

GARVIN & NORTHWESTERN.—Chartered in Oklahoma, with $100,000 capital stock, to build two lines of railway through McCurtain and Pushmataha Counties. One of these lines will run from Garvin, Okla., northwest to Dexter, 55 miles, and the other from some point on the first line to Eagletown, 25 miles. The directors are H. E. Bushby, C. Gamble, Wm. V. Engfer and G. A. Spaulding, of Garvin, and A. J. Waldeck, of Oklahoma City.

GRAND TRUNK PACIFIC.—Bids will be asked soon for building a branch line from Biggar, Sask., north to Battleford, 40 miles.

INTERSTATE RY.—Contracts probably will be awarded soon for building this railway from Kansas City, Mo., to St. Joseph, via Dearborn, 50 miles. Surveys have been run. Samuel P. Martin, N. Y. Life Bldg., Kansas City, is Secy.

KEWEENAW CENTRAL.—Company will let contracts for building the 12-mile extension from Mandan, Mich., to Bete Grise Bay. F. E. Simar, Lawrium, is Ch. Engr. Noted on March 25.

*LOUISVILLE & NASHVILLE.—Bids were received by the Board of Public Works, Louisville, Ky., on May 24, for the construction of an underpass or undergrade crossing in Oak St., between Eighth and Tenth Sts., to be built by the City of Louisville and the Louisville & Nashville R. R. Co. The work consist of approximately 20,000 cu. yds. of excavation, 2,300 cu. yds. of plain and reinforced concrete, and 2,400 sq. yds. of granite block pavement, and other minor items. Tipper & Son, Peru, Ind., were the lowest bidders, at cost of about $70,000.

MIDLAND CONTINENTAL.—J. T. ADAMS, Columbus Savings & Trust Bldg., Columbus, Ohio, has general contract for building the first section (200 miles) of this railroad.

Sub-contracts will be let soon. The line will run from Pembina, N. Dak., to Edgeley. G. P. Beach, Jamestown, S. Dak., is Engr.

MISSISSIPPI.—The Clarksdale (Miss.) Business League is interested in the promotion of a railroad to connect Clarksdale and Friar Point, Miss., 14 miles, and is in the market for second-hand materials. J. L. Hartshorn is Secy.

MISSOURI INLAND & SOUTHERN.—Chartered with $400,000 capital in Missouri, to build a railroad from Rolla, Mo., to Licking, 40 miles. The officers named in the articles of incorporation are: E. E. Young, Pres.; A. H. Bradford and E. C. Comstock, Vice-Presidents; C. E. Halbert, Secy.; D. M. Meadows, Treas. The Board of Directors are: Mr. Evers, E. C. Halbert and D. M. Meadows, of Licking, and E. C. Comstock, of Rolla, Mo.

MISSOURI, KANSAS & TEXAS.—Contract for revision work on the Oklahoma Division has been awarded to the WALSH CONSTRUCTION CO., Davenport, Iowa.

MISSOURI PACIFIC.—The WALSH CONSTRUCTION CO., Davenport, Iowa, has been awarded contract for grading and bridging in connection with the double-track work on the Illinois divison of the St. Louis, Iron Mountain & Southern Ry. This division extends from East St. Louis, Ill., south to Thebes, 129 miles. This work will include double-tracking from Bixby, Ill., to Brownsburg (Fults), 26 miles; from Prairie du Rocher to Roots (Modoc), 12 miles; from Raddle to Howardton, 14 miles, and from a point four miles south of Howardton to Gale, 23 miles, a total of about 75 miles.

PACIFIC RY. & NAVIGATION CO.—Contracts have been let to J. W. SWEENEY, ISAAC BLUMAUER and S. N. BLUMAUER, of Portland, Ore., for building last 53 miles of this line. Estimated cost of contract is $1,500,000. This railway is now in course of construction between Hillsboro, Ore., and Tillamook, 96 miles.

PITTSBURG, SHAWMUT & NORTHERN.—We are officially advised that bids were received on May 10 for the construction of the 11-mile branch from Coryville, Pa., to State Line Junction, in Cattaraugus County, N. Y. Frank Sullivan Smith, 60 Wall St., New York, is Receiver. H. S. Wilgus, Angelica, N. Y., is Engr. Maintenance-of-Way. The contract has been awarded to the MILLER CONSTRUCTION CO., Lock Haven, Pa.

ROME & NORTHERN.—Company has let contract to BURKE & JOSEPH, of Cape Girardeau, Mo., to build its line from Rome north to Gore, Ga., 18 miles, and thence southeast and northwest, parallel with the Taylor Ridge Mountains, about 50 miles. The R. G. Peters Salt & Lumber Co. is promoting the road. Construction will be in charge of J. B. Ricards, Gen. Supt. for BURKE & JOSEPH. The incorporators of the company are, R. G. Peters, James R. Peters, Roy A. Nickerson, Richard H. Hoffman, of Manistee, Mich., and H. H. Shackelton, John H. Reynolds, Joseph L. Bass, H. M. Smith, D. T. Haynes and W. S. McHenry, all of Rome, Ga.

SAN DIEGO & ARIZONA.—The first contract for grading work on the right-of-way of the San Diego & Arizona Railroad has been awarded to ROBERT SHERER & CO., of Los Angeles, Cal. It is for the section between San Diego and Tia Juana, 14½ miles. Noted on April 29.

*SHANNON ARIZONA.—Bids were received by J. L. Pickles, Ch. Engr. of the Shannon Arizona R. R. Co., Clifton, Ariz., on May 20 for the construction of ten miles of railroad grade from Clifton, Ariz., to Metcalf, Ariz. Approximate quantities are as follows: 100,000 cu. yds. excavation, solid rock; 7,000 cu. yds. excavation, loose rock; 40,000 cu. yds. excavation, earth; 900 lin. ft. rock tunnel; 2,000 cu. yds. dry rubble masonry; 900,000 ft. B.M. timber in bridges. Contract has been awarded to ANTONELLI & COTEY, of Clifton, Ariz. Company is in the market for equipment, etc.

ELECTRIC RAILWAYS.

BANGOR, ME.—The Bangor Ry. & Electric Co. will begin surveys at once for several extensions. The proposed route begins at the terminus at East Corinth, on the Charleston division, 20 miles northwest from Bangor, and will run directly west through Exeter and Garland to Dexter, thence southwest through St. Albans, Hartland, and Canaan to Skowhegan, on the Kennebec River. At Shawmut, 13 miles down the river, it is announced, connection would be made with the Fairfield & Shawmut line, at Fairfield, with the Waterville & Fairfield R. R. and at Waterville with the through line to Portland and Boston. The proposed new route would mean the building of about 60 miles of road. John R. Graham is Pres. and Gen. Mgr., at Bangor. Noted on May 13.

HARTFORD, CONN.—The State Legislature has extended the charter of the East Hartford & Windsorville Street Railway Co. to Nov. 1, 1910, and an arrangement has been completed between this concern, which has not yet built any of its line, and the Hartford & Springfield Co. by which the latter is to build south from Broad Brook to Windsorville Green and the first-named company will build north from East Hartford to meet it at Windsorville.

NEW YORK, N. Y.—The Third Avenue Bridge Co., of New York, capital $20,000, has been incorporated to operate an electric street surface railroad nearly two miles long from 57th St. and Third Ave., Manhattan, to the terminus of the Queensboro Bridge, at Jackson Ave., in Queens Borough. The directors are Alfred D. Sage, Walter J. Quinn, William P. Seaver, James F. Feeley, Raymond O'Neill and Edward Goodwin, of New York; Walter C. Burrows, of Brooklyn, and Lewis Kayer, of Mount Vernon, N. Y.

GENEVA, N. Y.—The Public Service Commission, Second District, has granted the application of the Geneva, Waterloo, Seneca Falls & Cayuga Lake Traction Co. for permission to construct an extension of its railroad from Seneca Falls across Cayuga Lake to Auburn. The order requires that the detailed plans for the crossing of Cayuga Lake be filed and approved by the commission before actual construction is started. The commission has also granted the company permission to change its name to the Geneva & Auburn Railway Co. Noted on March 11.

CLINTWOOD, VA.—Columbus Phipps, of Clintwood, is interested in project to build a 6½-mile electric street railway from Clintwood to the railroad station. Construction work will be started as soon as grading is begun on the Carolina, Clinchfield & Ohio River R. R. Co.'s extension through Dickinson County down the McClure River.

HINTON, W. VA.—The Hinton Street Car & Transportation Co., of Hinton, W. Va., has been chartered to build a line from Hinton via Union, Avis and Red Sulphur Springs to connect with the Norfolk & Western Railway and the Virginia Railway at the mouth of East River, in Mercer County, West Virginia, it is announced. Capital, $50,000. James T. McCreery, W. H. Sawyer, H. Ewart, O. O. Cooper and J. H. Miller, all of Hinton, W. Va., are the incorporators.

WHEELING, W. VA.—The Rapid Transit Ry. Co., recently incorporated under the laws of West Virginia with $1,000,000 capital stock, has organized by electing A. M. Shenk, Pres.; Edward Steiffel, Vice-Pres., and J. D. Merriman, Secy. and Treas. This company proposes to build an electric railway connecting Pittsburg and Wheeling. Noted on April 29 and April 8.

WESTON, W. VA.—George I. Keener has been granted a franchise by the County Court for an electric railway between Weston and Bendale. The City Council of Weston has a franchise grant to the company under consideration. Arrangements are being made for starting construction work soon.

LEXINGTON, KY.—Contract for the electric interurban railway of the Central Kentucky Traction Co., from Lexington to Nicholasville, twelve miles, has been let to DAVID PEPPER, JR., Land Title Bldg., Philadelphia. SMETHURST & ALLEN, North American Bldg., Philadelphia, will do the work. J. B. Crawford, of Lexington, is Gen. Mgr. of the Traction Co.

COLUMBUS, OHIO.—It is announced that the Columbus, Plain City & Urbana Traction Co. is not yet ready to award contracts. Chas. A. Heath, Harrison Bldg., Columbus, is interested. Noted on May 20.

NORTH MANCHESTER, IND.—The City Council has granted a franchise to J. A. Barry, representing the Wabash & Northern Traction Co., for an interurban railway from Wabash to Warsaw.

KOKOMO, IND.—The Kokomo Western Traction Co., which will build a 17-mile line from Kokomo to Young America, Ind., has had surveys made and has partly secured capital for the construction of the line. Contracts for constructing the grade for the road will be let soon. C. C. McFann, Kokomo, Ind., is Pres. Previously noted.

STERLING, ILL.—The Dixon, Rock Falls & Southwestern Electric Ry. Co. has let a contract for the construction of its proposed railway from Sterling to Rock Island to the BURNS CONSTRUCTION CO., Anderson, Ind.

SPRINGFIELD, ILL.—The Springfield & Jacksonville Elec. Ry. Co. has awarded grading contract to the FRANKLIN CONSTRUCTION CO., St. Louis, Mo. The railway company has filed a deed making the St. Louis Trust & Savings Bank trustee in an authorized bond issue of $800,000. The company expects to begin work soon on its projected electric railway between Springfield and Jacksonville. The greater portion of the right-of-way between the two cities has been secured and negotiations are in progress for the purchase of the remainder. John E. Melick, Springfield, is Ch. Engr.; O. J. Lucas, Latham, Ill., is Pres. Noted on April 29.

SYCAMORE, ILL.—The Elgin & Sycamore Ry. Co. has started surveys for its proposed line. G. N. Lamb, St. Charles, Ill., is Engr. As noted on April 15, this company has been incorporated in Illinois for the purpose of constructing an electric railway through Elgin to Sycamore and thence through De Kalb to Dixon and to Aurora. Capital stock, $100,000. Directors: B. C. Payne, F. N. Rogers, E. S. Bailey, F. J. Hohling, F. W. Merrick and F. N. Rogers, all of Elgin.

SPARTA, WIS.—J. N. Braun, 402 American National Bank Bldg., St. Paul, Minn., Pres. of the Sparta & Melrose Elec. Ry. & Power Co., announces that the right-of-way for this railway has been purchased. The proposed line will connect Sparta and Melrose, 28 miles. Several bridges will be built, but contracts have not yet been let for them, nor for the repair shops and a car house, which will be erected at Sparta. Capital stock authorized, $300,000, of which $200,000 has been issued. The Western Transportation Co., American National Bank Bldg., St. Paul, Minn., has taken over the holdings of the Sparta & Melrose Electric Railway & Power Co. and will construct the line. H. O. Sargeant is Vice-Pres.; Asa B. Karns, Secy.; E. A. Schwedler, Lacrosse, Wis., Treas.; Bert Cummings, Supt.; Clayton Dehler, Sparta, is Ch. Engr. Noted on May 6.

GRAND RAPIDS, WIS.—Surveys are completed and capital secured by the Grand Rapids St. Ry. Co. for its proposed line from Grand Rapids to Port Edwards and Nekoosa, Wis., eight miles. Contracts will be let soon. The Knox Engineering Co., 1410 Fisher Bldg., Chicago, Ill., is the Engr.; Neal Brown, Wausau, Wis., is Pres.

WATERTOWN, S. DAK.—E. Stanley, E. E. Simpson and C. E. Edwards and others from Des Moines, Iowa, are reported to have let to the CHICAGO ENGINEERING CONSTRUCTION & SECURITY CO. a contract to build an electric railway between Watertown and Lake Kampeska, six miles.

OKLAHOMA, OKLA.—John W. Shartel, Vice-Pres. and Gen. Mgr. of the Oklahoma City Traction Co., and Harry M. Daugherty, of Columbus, Ohio, are reported interested in plans for an interurban electric railway 50 miles long from Guthrie via Oklahoma City to Norman, Okla.; and another line 62 miles long from El Reno via Oklahoma City, to Shawnee, Okla.

The Oklahoma Interurban Traction Co., of Oklahoma City, is reported making arrangements to build two lines, one from Oklahoma City to Shawnee, Okla., and the other from Oklahoma City to El Reno, Okla. L. E. Patterson is interested.

MARSHFIELD, ORE.—J. F. Clark and J. H. Somers have been granted a franchise by the County Commissioners for an electric railway between Marshfield and Coquille.

MONTEREY, CAL.—H. R. O'Bryan has applied to the Board of Supervisors for a franchise to build a street railway over certain streets in Monterey County.

The Del Monte Townsite Co., 702 Pacific Bldg., San Francisco, Cal., has had surveys made and has secured capital for the construction of a 3-mile electric railway from Monterey to Del Monte Heights. Contracts for construction of the line will be let soon. F. M. Fairchild, Oakland, Cal., is Ch. Engr.; George W. Phelps, San Francisco, Cal., is Pres. of the Del Monte Townsite Co.

BENICIA, CAL.—The Randall Trowbridge & Wright Co., of Oakland, Cal., has been granted a franchise for an electric line connecting Benicia, Vallejo and White Sulphur Springs. The company owns the hotel at White Sulphur Springs and the electric line is to be built to connect that resort with the points where connection can be made by boat or train with the bay cities.

WELLANDPORT, ONT.—H. LLOYD, of Dunnville, Ont., has been awarded the contract for the construction of the first ten miles of the Dunville, Wellandport & Beamsville Electric Ry. As noted on Feb. 11, this company will build an electric line which will extend from Dunnville through Wellandport to Beamsville, a distance of 23 miles. A by-law has been passed by Dunnville granting a bonus of $15,000. It is possible that the Board of Directors will be reorganized shortly. Capital stock, $400,000. The road will be bonded at $20,000 per mile. James A. Ross, Wellandport, is Pres.; W. J. Aikens, Dunnville, Secy.; R. T. Gough, Toronto, Ch. Engr.

MEXICO CITY, MEXICO.—Carlos Alvarez Escalante, of San Angel, is surveying a railway which will open a new route for the products of the cotton mills located in the Federal District. The line will run from San Angel to Contreras and La Canada, and the concessionair expects to make definite arrangements for the construction of either an electric or steam road, which will run by the factories of La Abeja, San Antonio, Loreto and other cotton and stamping mills to La Canada, passing Contreras on the line of the Mexican Central Ry.

LIGHT AND POWER PLANTS.

(* *denotes that this work is advertised in Engineering News.*)

BOSTON, MASS.—Bids are asked by Lt. Col. Edward Burr, Corps Engrs., U. S. A., Boston, until noon, June 14, for electrical cable.

*WEST POINT, N. Y.—Bids are asked by the Quartermaster, West Point, until noon, June 21, for furnishing and installing electric and combination gas and electric light fixtures in the Post headquarters building.

BUFFALO, N. Y.—Contracts for the new electric lighting plant in the City Hall have been awarded as follows: Wiring, McCARTHY BROS. & FORD, 41 East Eagle St., Buffalo, $23,280; generators, ALLIS CHALMERS CO., Milwaukee, Wis., $3,650; engines, SKINNER ENGINE CO., $4,935; carpenter and mason work, CHARLES GRUBER, $350; tiling, ALVIN W. DAY, $984; painting, Joseph A. Goatsey, $115, and steam fitting, TIMOTHY McAVOY & SON, $1,465; total, $34,779.

NEW YORK, N. Y.—Bids will be received by Bird S. Coler, Pres. Boro. of Brooklyn, until June 9 (extension of date), for pumping engine and power plant for operating Gowanus flushing tunnel, Boro. of Brooklyn.

NEW YORK, N. Y.—Bids asked until 11 a. m., June 14, by C. B. J. Snyder, Supt. of School Bldgs., Dept. of Education, for repairs, alteration and addition to the electric equipment in Public Schools, Nos. 8, 13, 16, 19, 35, 44, 50, 75, 110 and 125, Boro. of Manhattan.

Plans have been filed for a 3-story and basement power-house for the Edison Co. on 26th St., east of Sixth Ave., adjoining its present station. It will have a frontage of 75 ft. and a depth of 93.9 ft., costing $120,000.

PHILADELPHIA, PA.—Bids are asked until 11 a. m., June 26, by R. C. Hollyday, Ch. of Bureau of Yards and Docks, for furnishing motor generator sets, exciters, switchboard, etc., at the U. S. Navy Yard, Philadelphia. Specifications are on file at the office of Engineering News, New York.

WASHINGTON, D. C.—Bids are asked by the District Commissioners until June 5 for a 1-year contract for lighting the streets, avenues, alleys and roads in the District of Columbia with mantle naptha lamps.

WASHINGTON, D. C.—Bids are asked by the District Commissioner, until 2 p. m., June 7, for furnishing and delivering three motor sets, for furnishing and delivering nine switchboards and for furnishing all necessary labor and materials for installing the above-named generator sets and switchboards and for wiring, equipping with electricity and making alterations, etc., as specified in the Eastern, Western and Central High Schools of this city.

Bids are asked by the District Commissioners, until 2 p. m., June 10, for furnishing all necessary labor and materials for wiring, equipping with electricity and apparatus and making additions, alterations, etc., in the physics laboratory of the M St. High School of this city.

ONACOCK, VA.—Harry L. Richardson, Engr. of Laurel, Del., is reported interested in the construction of an electric plant at Onacock.

FORT SPRING, W. VA.—[illegible] F. Mann, of Fort Spring, has decided [illegible] construct a power plant on Second Cr[illegible]

JASPER, FLA.—D. G. Z[illegible] & Co., of Atlanta, Ga., and Jackso[illegible] Fla., have been retained as consultin[illegible] the development of a hy[illegible]gineers for on the Allappaha River. [illegible]ectric plant Jasper, Fla., and 18 miles [illegible] miles from Quitman, Lake Park and [illegible] Valdosta. All of the above cities wi[illegible]ville, Ga. with power from the plant [illegible] furnished [illegible]velop 10,000 HP. Charter [illegible] will de- for in a few days and will [illegible] applied for $1,000,000. It is unde[illegible]rporated stock has been subscribed fo[illegible] that all 20 per cent. paid into the te[illegible] the first [illegible]ury. [illegible]ry treas-

GENEVA, ALA.—D. G. Zi[illegible] & Co., Archs. and Engrs., of Atlan[illegible] have been retained as consulting [illegible]ers in planning and constructing a [illegible]electric plant to be developed on D[illegible] Bridge Creek, about six miles north [illegible]eneva, where 5,000 HP. will be deve[illegible] The same company will build a cot[illegible]mill at Geneva and other manufacturing [illegible]ustries. Charter has been applied for i[illegible]erating the company for $500,000 fully pa[illegible] capital, and all stock has been tak[illegible] and 30 per cent. paid in. The incorpor[illegible]rs are: Hon. D. O. Vaughan, Mayor; J. [illegible] Clark, Pres. of the First National Bank [illegible]eneva; D. G. McInnis, D. H. Morris a[illegible] A. M. McKinnon, all of Geneva, Ala. [illegible]his development will furnish power to the following places: Geneva, Enterprise, Hartford, Coffee Springs, Samson and several other smaller towns and cotton mills, all in Alabama.

ABBEVILLE, ALA.—The Abbeville Power & Mfg. Co. has retained D. G. Zeigler & Co., of Atlanta, Ga., and Jacksonville, Fla., it is stated, to make plans and construct a hydro-electric plant on the Abbey Creek, eight miles north of Abbeville, Ala., where 8,000 HP. will be developed. This plant will furnish Abbeville, Dothan, Ufaula, Wells and Columbia, Ala.; Ft. Gains and Blakely, Ga. Charter has been applied for incorporating this company for $500,000 fully paid up. All stock has been taken and 25 per cent. paid in. This company will build a cotton mill at Abbeville, Ala. J. L. Pollard, attorney-at-law, and Dr. C. J. Owens and others, all of Abbeville, Ala., are the incorporators.

NEW ORLEANS, LA.—Bids will be received until June 15 by Bernard McCloskey, Pres. Court-house Com., 1201 Hibernia Bank Bldg., for installing electric fixtures in the court-house. P. Thornton Marye is Arch., Candler Bldg., Atlanta, Ga.

LOUISVILLE, KY.—We are officially advised that arrangements are being made by B. F. Avery & Sons, 150 Main St., Louisville, for construction of a new plant. A power plant will be installed, the equipment of which will include boilers and engines to supply 700-HP. automatic sprinkler system, electrical and other equipment. Plans and specifications are being prepared by George M. Brill, Marquette Bldg., Chicago, Ill. Cost, $500,000.

ANTWERP, OHIO.—A. A. Pointer, owner of the electric light plant, expects to install a 75-KW., 3-phase, 60-cycle alternator; also a 150-HP. boiler, 125-HP. engine, 100-KW., 3-phase generator.

CRAWFORDSVILLE, IND.—Bids are asked until June 15, by B. T. Gifford, Ch. Engr., 407 First National Bank Bldg., Chicago, Ill., for constructing a hot water heating plant here, to cost $150,000.

LA FAYETTE, IND.—See item under Buildings.

EVANSVILLE, IND.—The Board of Public Works will receive bids about June 19 for the lighting of a portion or all of the streets, public buildings, city offices, fire houses and parks. Bidders must designate the particular buildings or streets they bid on.

BRAZIL, IND.—Plans for the construction of a power plant, 62 × 189, for the Knight-Brinkerhoff Piano Company, are now ready for bidders. H. B. McMillan, architect.

ALPENA, MICH.—The Board of Supervisors has granted permission to the Alpena Power Co. to construct a cement and concrete power dam across Thunder Bay River, to cost between $50,000 and $75,000. B. C. Graves is Supt., Alpena.

ST. JOHN, KAN.—Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., advise us that plans and specifications are in progress for a lighting, water-works and sewerage system. Total estimated cost, $37,500. No date has been set for taking bids.

PIERRE, S. DAK.—Bids are asked until June 29 by the State Capitol Commission, John Hirning, Secy., for furnishing and installing electric fixtures at the new Capitol building. C. E. Bell is Arch., Northwestern Bldg., Minneapolis, Minn.

WHITEFISH, MONT.—The Big Bend Light & Power Co. has been formed with a capital of $300,000 to construct and operate hydro-electric power plants in Washington and Montana. E. Messinger, of Whitefish, is interested.

GREAT FALLS, MONT.—Contract will be let at once for the construction of the buildings for the gas plant to be installed at this city. E. A. Potter, Superv. Engr., expects to have the plant completed and furnishing gas to its customers before the end of this year.

GATESVILLE, TEX.—We are officially advised that the Gatesville Electric Light Co., of Gatesville, Tex., has awarded contract to the MINNEAPOLIS STEEL & MACHINERY CO., of Minneapolis, Minn., for furnishing a 75-HP. Muenzel gas engine and lignite producer, which is to be installed in the plant it is building.

CHICKASHA, OKLA.—The Chickasha Light, Heat & Power Co. will begin the reconstruction of its plant at once and is in the market for boilers, steam turbine units, generators, condensing apparatus, pole line

material, switchboards and material for a brick building, etc. C. G. Johnson is Supt. C. L. Wheedon is Mgr.

CHICKASHA, OKLA.—The Chickasha Light, Heat & Power Co. will expend about $60,000 in improvements, including reconstruction of the entire plant, power-house and line. The company will probably install steam turbine generators. C. G. Johnson is Supt.

PULLMAN, WASH.—The Trustees of the State College are reported to be considering an expenditure of $50,000 on the heating and lighting plant.

BELLINGHAM, WASH.—The Washington Mining & Developing Co. will spend $200,000 in erecting a power station on Collins Creek. W. N. Bath is one of the directors of the company.

SPOKANE, WASH.—The following bids were received on May 18 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for lighting fixtures for the U. S. post-office at Spokane, Wash.: D. J. Brown Mfg. Co., Chicago, Ill., $4,355; Cassidy & Son Manufacturing Co., New York City, $4,434; time, 75 days; E. H. Catlin Co., Washington, D. C., $4,523; time, 120 days; Horn & Brannen Mfg. Co., Philadelphia, Pa., $5,500; Edward Miller & Co., Meriden, Conn., $4,963; time, 120 days; Morreau Gas Fixture Co., Cleveland, Ohio, $5,122; time, 90 days; F. Storsberg, Newark, N. J., $4,342; time, 75 days; Toledo Chandelier Mfg. Co., Toledo, Ohio, $4,443; time, 75 days; Wahle-Phillips Co., New York, $4,239; time, 75 days; A. C. Rice, Spokane, Wash., $3,669; Inland Electric Co., Spokane, Wash., $6,360; time, 60 days.

PORTLAND, ORE.—It is reported that the Oregon Light & Power Co., of Portland, which was incorporated early this month with a capitalization of $2,000,000, intends to operate in Portland, Seattle, and Tacoma. Over $50,000 has been expended in a saw mill to manufacture wood for flumes, and in the purchase of water rights. The company holds rights on the Cowlitz River along which could generate, it is declared 40,000 HP.

SAN DIEGO, CAL.—The San Diego Consolidated Gas & Electric Co. has increased its capital from $1,500,000 to $3,500,000. The company is said to be planning extensive improvements to its plant. R. L. Clarke is Supt.

MONTREAL, QUE.—It is reported that McGill University contemplates installing a power plant.

WINNIPEG, MAN.—Plans are being prepared by the Gas Traction Co., of Minneapolis, Minn., for a $75,000 plant to be erected here this summer. O'Grady & Anderson, Winnipeg, Man., are interested.

W. E. Skinner, 409 Somerset Block, has formed a company to install a steam heat distributing plant to cost $500,000.

WINNIPEG, MAN.—The city has decided to call for bids for electrical machinery in connection with the civic power development at Point du Bois. Estimated cost, $500,000. Cecil B. Smith is Civic Power Engr.

PRINCE ALBERT, SASK.—We are officially advised that the City will build a power plant 26 miles north of the city at La Colle Falls, North Saskatchewan River, to develop 10,000 HP. The Government has promised to reserve franchise for the city power and light. A dam will have to be built. C. E. Mitchell is Engr., Toronto; Charles McDonald is Mayor; F. W. Holliday is interested.

EDMONTON, ALTA.—The Council has awarded contract for the structural steel work on the proposed plant to the EDMONTON IRON WORKS, at $16,769.

BRIDGES.

(denotes that this work is advertised in Engineering News.)*

LACONIA, N. H.—The F. T. Ley Co., Springfield, Mass., at $13,000, was low bidder for constructing a concrete arch bridge for this city and will probably be awarded the contract. Bids were opened on May 13, by Charles A. French, City Engr.

*NEWBURYPORT, MASS.—Bids for rebuilding the "chain bridge" were opened by the County Commissioners on May 24. The bids were as follows: C. F. Hall, 17 Milk St., Boston, steel, $53,244; concrete, $56,884. W. L. Miller, 19 Milk St., Boston, steel, $64,860; concrete, $69,109. Raymond & Preston, steel, $53,300; concrete, $57,300. Holbrook, Rollins & Co., Boston, steel, $51,300; concrete, $65,600. John A. Roebling & Sons, Boston, steel, $57,725; concrete, $57,735; same firm, reconstructing according to their own plans with steel, $51,000; concrete, $55,000. James P. Hale is Clk.

LUDLOW, MASS.—Bids are asked until 11 a. m., June 7, by the town for a concrete bridge, 20 ft. wide clear roadway over Stony Brook.

BUFFALO, N. Y.—The Common Council has authorized Francis G. Ward, Comr. Pub. Wks., to draw plans and advertise for bids for a steel bridge on the Abbott road, over the Buffalo River, to consist of one fixed span and one lift or bascule span.

Governor Hughes has signed the bill appropriating $19,500 toward constructing a steel bridge over the Erie Canal at Georgia St.

HACKENSACK, N. J.—Bids will be received until June 3 at the office of the Board Chosen Freeholders, Hackensack, for the following bridge work: Repairing bridge at New Bridge, constructing a bridge over the Ramapo River at Havemeyers Road; constructing a concrete and steel beam bridge at Blauvelt's Mill, near the Paramus Road; extending bridge on Flat's Road, Peetsburg; constructing a concrete culvert at Gorge Road and Park Ave., Cliffside Park.

ATLANTIC CITY, N. J.—Bids will be received by the Board of Chosen Freeholders of Atlantic County until 11 a. m., June 9, for furnishing the necessary labor and materials for the construction of a bridge on Zurich Ave. in Galloway Township, according to the specifications on file in the office of the County Engineer, 108 Bartlett Bldg., Atlantic City. Frank Enderlin is Chn. Bridge Com.

SOMERS' POINT, N. J.—The Bridge Committee of the Atlantic County Freeholders and members of the Cape May County Board on May 14 selected the route, it is reported, of the proposed bridge from Somers' Point to Beesley's Point, across Great Egg Harbor Bay. The route runs almost in a direct line and the engineers of both boards will be instructed to make the preliminary survey. It is estimated that the bridge, which will form a part of the ocean boulevard, will cost $200,000.

OCEAN CITY, N. J.—Bids will be received by Walter Loring Webb, Engr., 1026 Real Estate Trust Bldg., Philadelphia, Pa., until June 9 for the construction of a reinforced-concrete ornamental bridge with approaches for the Ocean City Bayous Co., at Ocean City. Bridge span 30 ft., width about 30 ft.

YORK, PA.—Bids will be received by C. B. King, Clk. Bd. Comrs., York County, until 10 a. m., June 9, for the construction of two 30-ft. reinforced-concrete bridges, with 14-ft. roadways. George F. Bortner is Chn.

READING, PA.—Plans are being prepared for a bridge to be constructed over the railroad tracks at Tulpehocken St. Estimated cost, $35,000.

*PHILADELPHIA, PA.—Bids are asked by George R. Stearns, Dir. Pub. Wks., until noon, June 17, for Schedule A bridges.

PHILADELPHIA, PA.—Contracts for grade crossing work on the Philadelphia & Reading Ry., bids for which were received on May 11, have been let as follows: Contract No. 1, masonry, trestle and embankment from the south side of Green St. to the south side of Brown St., to JAMES McGRAW Co., 1010 Arcade Bldg., Philadelphia, at $237,307; Contract No. 2, foundations for the steel viaduct from the south side of Brown St. to the north side of Jefferson St., to OWEN J. EVERS, 725 Heed Bldg., Philadelphia, at $67,721; Contract No. 12, masonry, embankment, paving, water and drainage systems, fence and gates, new office building, scale foundation, concrete steps and pavement for yard at Master St., to Owen J. Evers, at $92,342. W. Hunter, Reading Terminal, Philadelphia, is Engr.

CHARLOTTE, N. C.—The Board of County Commissioners have awarded contract for the proposed bridge across the Catawba River, at Rozzell's ferry, to the YORK BRIDGE CO., of York, Pa., at about $13,940.

SPARTANBURG, S. C.—Bids are asked until June 10, by D. M. Miles, Superv. of Spartanburg County, Spartanburg, and H. B. Humbert, Superv. Laurens County, Laurens, S. C., for construction of Enoree bridge over Enoree River. Bids will be received on both wood and steel structures.

HAZLEHURST, MISS.—Bids will be received until June 7 by the Board County Supervisors, J. H. Long, Clk., for $30,000 of bonds to be issued for the purpose of constructing bridges and roads.

KNOXVILLE, TENN.—Bids will be received by the Board of Public Works until June 8 for constructing the Asylum Ave. viaduct.

CANTON, OHIO.—The KISSNER CONSTRUCTION CO., Coshocton, Ohio, has been awarded contract, at $13,140, for constructing a 60-ft. span concrete bridge for the county. Bids were opened on May 20 by M. W. Oberlin, County Audr.

GREENVILLE, OHIO.—Bids are asked until 11 a. m., June 12, by the County Commissioners, A. T. Marker, Clk., for constructing the Shields bridge.

CLEVELAND, OHIO.—Bids will be received by E. H. McIntosh, Secy. Bd. of Pub. Service, until June 22, for constructing an overhead crossing on Cornell road and the New York Central & St. Louis R. R. W. J. Springborn is Pres.

LIMA, OHIO.—Bids will be received by the Board of Commissioners of Allen County until June 19 for constructing a 38ft. concrete arch over Baker River, in Auglaize Township. C. E. Craig is County Engr.

GOSHEN, IND.—The County Commissioners are planning to let a contract for the construction of a street-wide concrete bridge on Main St., over Rock Run.

INDIANAPOLIS, IND.—Bids are asked by the Commissioners of Marion County until 10 a. m., June 14, for the construction of two concrete culverts in Center and two in Decatur Townships. Albert Salm is County Audr.

ALBION, IND.—Bids will be received by the Board of Commissioners of Noble County until 2 p. m., June 8, for repairing and moving various bridges. John W. Earle is County Audr.

CHICAGO, ILL.—The contract for erecting a bridge over the Illinois and Michigan Canal at Skedzie Ave. has been awarded to the FITZSIMMONS & CONNELL CO., Tacoma Bldg., Chicago, at $22,600. Bids were opened on May 12.

DECATUR, ILL.—The DECATUR BRIDGE CO. has secured contract, at $6,782, for constructing a bridge over Flat Branch Creek, ten miles northeast of Taylorville. The structure is to be 685 ft. long and entirely of steel.

APPLETON, WIS.—WALTER BLAKE was awarded contract on May 18 for the construction of three concrete bridges in the town of Maple Creek. The aggregate cost of the three structures will be about $3,600.

WICHITA, KAN.—The CARR & MARTIN BRIDGE CO. has secured contract, at $7,085, for constructing ten bridges in Sedgwick County, bridges to be supported on white oak or red cedar piles.

COLONY, KAN.—Bids will be received by the Board of Commissioners of Anderson County, Garnett, until noon, June 7, for rebuilding one abutment of the bridge on Deer Creek, two miles east of Colony. M. J. Keeton is County Clk., Garnett.

DICKINSON, N. DAK.—Bids will be received by J. S. White, Audr., Stark County, until 10 a. m., June 22, for constructing two 85-ft. span steel bridges.

MINOT, N. DAK.—Bids will be received by the Board of Commissioners of Ward County until 2 p. m., June 15, for furnishing wooden bridge piling. L. A. Larson is County Audr.

RICHMOND, MO.—Bids are asked until June 7 by John M. Rhodes, County Highway Engr., for the construction of various bridges.

AMITY, ARK.—STUPP BROS., St. Louis, Mo., have secured contract, at $5,898, for constructing steel bridge over the Caddo River at Amity for the County.

WEATHERFORD, TEX.—Bids will be received by Hugh McGrattan, Chn. Bridge Com., until noon, June 10, for the construction of a concrete bridge, 100 ft. wide. C. W. Camp is City Engr., Weatherford.

TRENT, WASH.—The Commissioners of Spokane County have in contemplation, it is stated, the erection of a steel arch bridge over the Spokane River at Trent. Estimated cost, $15,000.

*PORTLAND, ORE.—Bids will be received by the Mayor and Executive Board until noon, June 20, for constructing a bridge over the Williamette River. Waddell & Harrington, Kansas City, Mo., are Consult. Engrs.

PROVO, UTAH.—Bids are asked until 10 a. m., June 5, by Frank Wentz, County Surv., for constructing 100-ft. span, 16-ft. roadway, steel bridge over Provo River on the Lakeview road. Estimated cost, $3,500.

VANCOUVER, B. C.—Waddell & Harrington, Consult. Engrs., Kansas City, Mo., have submitted plans for improvements to the Granville St. bridge to be built by the city. Estimated cost, $124,000.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

ALBANY, N. Y.—Bids are asked until 3 p. m., June 1, by the Board of Contract and Supply for repairs and improvements to Public Schools Nos. 3, 4, 5, 8, 11, 14, 15, 17, 20, 22, 24, 25 and the High School.

JOHNSTOWN, N. Y.—The city authorities of Johnstown have awarded to RAYMOND M. BOOTH, of Troy, N. Y., the contract for constructing a high school in this city for $62,499. The architects are Fuller & Pitcher, 95 State St., Albany, N. Y. Work will be begun at once.

POUGHKEEPSIE, N. Y.—Bids are asked until June 10 by Luskey, Platt & Co., for erecting a 3-story fireproof annex to department store on Academy St., 100 × 100 ft., of steel frame and reinforced concrete construction with cream colored terra cotta and glas front. Cost, $40,000. Percival Lloyd is Arch.

ROCHESTER, N. Y.—Gordon & Madden, Archs., 300 Sibley Bldg., have prepared plans for a 60 × 92 ft. 4-story and basement brick and concrete addition to be erected by St. Mary's Roman Catholic Orphan Asylum, at West Ave and Genesee St.

ROCHESTER, N. Y.—Foote & Headley, Arch., have prepared plans for a parish house for the Third Presbyterian Church adjoining its church edifice at East Ave. and Meigs St. It will have two stories and basement.

RAY BROOK, N. Y.—F. B. Ware, State Arch., has completed the preparation of plans and specifications for work at the State Tuberculosis Hospital at Ray Brook, Essex County, N. Y., which is designed to double the capacity of the institution. The work includes the construction, heating, plumbing, and electric work for new pavilions, new power house and conduit, new storage reservoir, additional sewage beds, alterations in the main building and removing the present power plant. It is expected that bids will shortly be asked to be received on June 14 by the hospital authorities.

SYRACUSE, N. Y.—Russell & King, Archs., have prepared plans for a church building to be erected on St. James St., by the First English Lutheran Church Society, to cost about $66,000.

RICHFIELD SPRINGS, N. Y.—St. John's Episcopal Church will build a parish house and rectory. Plans for same have been prepared by Earl Hallenbeck, of the Syracuse University Architectural Dept., Syracuse, N. Y.

NEW YORK, N. Y.—Bids were received as follows on May 27 at the office of James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., for the construction of the foundations, tracks columns and basement floor of the new post-office building at New York: Richard E. Henningham, New York, $711,554; Charles W. Beckworth, 415 Hudson St., New York, $617,305; Snare & Triest, 143 Liberty St., New York, $714,410; Ambrose B. Stannard, St. James Bldg., New York, $607,000; Post & McCord, 44 East 23d St., New York, $749,500; Cramp & Co., Philadelphia, $686,996; Clarke & Stowe, Brooklyn, N. Y., $769,500. Time, Dec. 15, 1909.

Plans of the proposed layout of the grounds, with projected buildings, and the general scheme of improvement of Blackwell's Island, were approved at a recent meeting of the Municipal Art Commission. Robert W. de Forest presiding. About $23,000,000 is estimated as the cost.

The Commission also approved designs for the complete museum building of the Brooklyn Institute, at the intersection of the Eastern Parkway, Washington Ave. and President. At a cost of $5,000,000 three similar wings are to be erected to join the new wing. In the center a high tower will rise.

Designs were approved for the Bradford Street Hospital, to occupy the entire block front in Dumont St., between Bradford St. and Miller Ave., Brooklyn. It will be built of light, buff colored brick and cost $250,000.

The Commission approved plans for additional third and fourth stores to the administration building of the Seventh Regiment Armory, at Park Ave. and 66th St., to cost $200,000; plans for an extension to the westerly end of the main building of the Kings County Hospital, to contain wards and administration rooms and to cost $150,000, and plans for a 3-story brick dormitory for boys, with administration offices on the westerly side of Hart's Island, to cost $100,000.

Plans have been filed for two 12-story apartment houses, each with 25 suites, to be built for the Edendale Construction Co., Edgar A. Levy, Pres., from plans and designs by Schwartz & Gross, Archs., 347 Fifth Ave. The buildings will be erected in 79th St., 100 ft. east of Riverside Drive, and will cost $300,000.

A 12-story fireproof loft building of brick and limestone will be built on the plots 141 to 147 West 45th St., with frontage of 68.6 and depth of 90 ft., at a cost of $300,000. John E. Oelson is the owner.

NEW YORK, N. Y.—Bids are asked until 2.30 p. m., June 8, by Robert W. Hebberd, Comr. Dept. of Public Charities, for the excavation, masonry, steel and iron work, roofing and metal work, carpentry, electric work, heating and ventilating work, plumbing work, and all other work (except certain kitchen, Sterilizing and lighting fixtures and refrigerators), as set forth in the drawings and specifications for the construction and entire completion of a morgue for the Metropolitan Hospital District, Blackwell's Island, Boro. of Manhattan, the City of New York.

A 12-story apartment house, to cost $500,000, will be built at the southwest corner of Central Park West and 69th St. by the Akron Building Co., 198 Broadway. The plans, by Schwartz & Gross, 347 Fifth Ave., Archs., provide for 37 suites.

Plans have also been filed for a 5-story flat house for Theodore Brigham, from designs by L. F. J. Weiher, Arch., 11 East 125th St., to cost $50,000.

Plans have been filed by Charles G. Jones, Arch., 280 Broadway, for Felix Isman, owner of the old A. T. Stewart store and office building at Chambers St. and Broadway, providing for the remodeling of the ground floor and basement of the building, at a cost of $50,000. The ground floor will be lowered to the sidewalk level, a new sidewalk of artificial stone will be laid and the Broadway entrance, with its marble steps, made over. The ground floor will be reapportioned into nine stores, the corner one being refitted with reflecting prism glass windows. The basement on the Chambers St. side will be furnished as a rathskeller, with an ornamental entrance.

A 6-story apartment house, to contain 48 suites, is to be built at the northwest corner of Broadway and 152d St. for the Sun Construction Co., and a similar apartment house will be built at the southwest corner of Broadway and 153d St. for Jacob Hirsh, each to cost $250,000. Young & Greenberg are the Architects.

NEW YORK, N. Y.—James Knox Taylor, Superv. Arch. of the Treasury, Washington, D. C., has awarded contract for the construction of the superstructure of the New York Assay Office to CRAMP & CO., Philadelphia, at $164,900.

An 8-story apartment house, with 17 suites, costing $175,000, is to be constructed by the Cumming Construction Co. in 88th St., east of Riverside Drive, with frontage of 75 ft., from plans by Schwartz & Gross, 347 Fifth Ave.

Plans have been filed for a 2-story loft building, with stores on the ground floor, for the block front on the west side of Broadway, between 86th and 87th Sts., for the Charles T. Barney estate. The loft building will have a frontage of 201.11 ft. and a depth of 95 ft., with a large central court. It will be of brick, finished with tile roof, from designs by John R. Hinchman and Walter Hazzard. It will cost $65,000.

At 157th St., between St. Nicholas and Edgecombe Aves., a 6-story apartment house, costing $300,000, will be built for the George Doctor Co., from designs by L. F. J. Weiher, 103 East 125th St.

An office building is to be erected on the south side of Joralemon St., between Court and Clinton Sts. It will be twelve stories in height and will devoted to offices for physicians and dentists. The Doctors' Office Building will occupy a site 25 × 108.7 ft., and it will have a depth of 103 ft. It will stand east of the Packer Institute and 298.4 ft. from Clinton St. It will be built with a front limestone for the first three stories and of red brick and terra cotta for the nine upper stories. There will be fireproof floors and trim, no wood being used. The entrance floor will be finished with a Sienna marble wainscoting and the upper floors with Italian marble. The window sills will be of marble and the doors of fireproof material. It is to be erected by the LOTOS CONSTRUCTION CO. after designs by F. W. Herter, Arch. The contract calls for the completion of the structure by Feb. 1, 1910, and it is expected that the offices will be ready for use by occupants at that time.

NEW YORK, N. Y.—Bids are asked by C. B. J. Snyder, Supt. School Bldgs., Dept. of Education, until 11 a. m., June 14, for alterations, repairs, etc., at Public Schools Nos. 13, 27, 32, 39, 40, 46, 60, 77, 82, 107, 124, 142, 146 and Manual Training High School, Boro. of Brooklyn; for alterations, repairs, etc., at Public Schools Nos. 13, 14, 19, 20, 25, 35, 40, 47, 50, 63, 79, 104, 140, 160, 161 and Stuyvesant High School, Boro. of Manhattan; for forming offices, etc., on the ninth story of the Hall of the Board of Education, Park Ave. and 59th St., Boro. of Manhattan; for installing heating and ventilating apparatus in Public Schools Nos. 8 and 11, also for alterations and repairs to the heating and ventilating apparatus of Jamaica Training School, Boro. of Queens; for alterations, repairs, etc., at Public Schools Nos. 8 and 12, Boro. of Richmond.

JERSEY CITY, N J.—We are officially advised that the TURNER CONSTRUCTION CO., 11 Broadway, New York, has been

awarded the contract for a reinforced-concrete storage warehouse, 65 × 48 ft., five stories and basement, for W. B. Everson & Son, Harrison Ave., Jersey City, N. J. Work will be undertaken at once.

PHILADELPHIA, PA.—Mershon Bros., Land Title Bldg., real estate operators, will construct an 8-story building at the northwest corner of 13th and Springs Sts., at a cost of $90,000. CRAMP & CO., Commonwealth Bldg., have been awarded the contract.

A home is to be built this summer for Alpha Chapter of the Phi Kappa Sigma Fraternity of the University of Pennsylvania. Plans for the building are now being prepared in the office of Bissell & Sinkler, Archs., Bailey Bldg. The house will be a 3-story brick and stone structure, at 3537-39 Locust St., near to the homes of many of the other University fraternities. It will contain the usual appartments necessary for club purposes, in addition to initiation rooms. The cost will be about $40,000. Bids will be asked in a month.

It is stated that JAMES G. DOAK & CO., builders, 1420 Chestnut St., have a contract for a 2-story moving picture theater to be built on the lot now occupied by 913-15-17 Market St., for George H. Earle, Howard B. Loeb and Richard Y. Cooke. The exterior will be of ornamental design, of brick and granite. The house will have a seating capacity of 1,200, and will cost $100,000. Stearn & Castor, Stephen Girard Bldg., are Archs. A 10-year lease on the house has been taken by Sigmund Lubin.

WILLIAMSBURG, PA.—Bids are asked by William E. Brown, Trustee, until noon, June 14, for construction of a school building.

YORK, PA.—Hamme & Leber, Archs., have prepared plans for a Masonic Temple to be erected on South George St., by the York Masonic Association. It will be built of stone, brick and terra cotta, and will have four stories, 58 × 141 ft; cost, $75,000. George P. Smyser is Chn. Bldg. Com.

WASHINGTON, D. C.—The contract for erecting seven buildings on the grounds of the Naval Medical School here, to be used as wards and quarters, was awarded on May 21 to the THOMPSON-STARRETT CO., Commercial National Bank Bldg., Washington, at $223,205. There were 18 bidders.

*FT. MONROE, VA.—Bids are asked until 10 a. m., June 30, by Capt. Ernest R. Tilton, Q. M., for the construction, heating, plumbing, electrical wiring and fixtures of two sets of quarters for officers at Ft. Monroe, Va.

*FORT MONROE, VA.—Bids are asked by Capt. Ernest R. Tilton, Constr. Q. M., until 10 a. m., June 14, for repairs and alterations to three old buildings, quarters numbers 1, 3 and 50, at Fort Monroe, Va. Also for repairs to the electrical, plumbing and heating systems in same.

LAKE CHARLES, LA.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., has awarded contract for construction of a post-office at Lake Charles, La., to the KING LUMBER CO., Charlottesville, Va., at $106,814. Time, Oct. 1, 1910.

VERSAILLES, KY.—Bids are asked until 3 p. m., July 1, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. post-office at Versailles.

SPRINGFIELD, OHIO.—All of the contracts for the erection and equipment of the Pennsylvania R. R. office building and freight station were secured by local men. The following contractors have been awarded the work: Carpenter work, W. P. MORNINGSTAR; brick work, JACOB A. HINCKLE; structural iron, the WILLIAM BAYLEY CO.; plastering, R. H. CLARK & CO.; excavating, foundation and brick paving, ROBBINS & McDANIELS; electrical work, the SACKETT CO.; plumbing, the CRAIN-STUART CO. The total cost of the building will be about $65,000. It will extend from Limestone St. to Spring St., and will be of brick and steel construction. The office building roof will be of red tile, while the roof of the freight station will be of slate. Albert Noble is Freight Agt., Pittsburg, Pa.

CINCINNATI, OHIO.—The First Christian Scientist Congregation has approved the plans for a new edifice to be erected on Park Ave., Walnut Hills, at a cost of $100,000. The site selected is the lot purchased from the estate of Henry C. Urner. It has a depth of 200 ft. with a 150-ft. front. The structure will be built entirely of stone. The plans call for a seating capacity of 800, exclusive of a balcony that will accommodate about 500 worshipers. There will be a pipe organ, which will be installed as soon as the building assumes shape.

COLUMBUS, OHIO.—At a meeting of the Penitentiary Board, Massiot & Allen, The Ruggery, Columbus, Arch., and the Osborn Engineering Co., Osborn Bldg., Cleveland, were selected to have charge of the reconstruction of the State prison to be done under the appropriation made by the General Assembly. About $200,000 worth of improvements are to be made at this time.

INDIANAPOLIS, IND.—Dr. J. M. Kitchen has awarded a contract for the construction of a large business building on Pennsylvania St. to the BEDFORD STONE & CONSTRUCTION CO., Traction Terminal Bldg., at $85,000. The plumbing and wiring contracts are yet to be awarded.

The general contract for the construction of the Murat Temple on New Jersey St. has been let to ALBERT VON SPRECKELSEN, North St. and Highland Ave., at $229,000.

LA FAYETTE, IND.—Bids are asked by A. C. McCorkle, Chn. Trustees State Soldiers' Home, until June 18, for the installation of mechanical stokers for six steam boilers; for remodeling commissary building; for erection of greenhouse; for a dynamo, engine, switchboard and connections, steam piping, etc.

MICHIGAN CITY, IND.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office building at Michigan City, Ind., to W. J. McALPINE, of Dixon, Ill., at $47,900.

FORT WAYNE, IND.—Henry W. Williams has plans on which he will receive bids for the erection of a 6-story office building on Berry St.

EVANSVILLE, IND.—The Intermediate Life Insurance Co. will ask for bids soon for the erection of a 10-story office building in this city.

TERRE HAUTE, IND.—The Trustees of the German Club, Emil Bauer, Pres., have ordered plans and will ask for bids soon for the construction of a clubhouse. Estimated cost, $50,000.

SPENCER, IND.—The County Council has appropriated $80,000 for the erection of a new court-house, in Owen County. Bids will be in order as soon as plans, now under consideration, are approved by the County Commissioners.

GOSHEN, IND.—A site has been selected and bids will be in order for a new post-office building as soon as James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., completes the plans.

MOUNT CLEMENS, MICH.—Contracts for the construction of a hotel at Mount Clemens, Mich., the cost of which will exceed $500,000, have been let. Officers of the hotel association are: R. M. Sharp, Pres., of Columbus, Ohio; Richard Leuschner, Mount Clemens, Vice-Pres.; Max E. Meisel, Cleveland, Secy.-Treas. The hotel, which is to replace the old Avery Hotel, will be built by WESTINGHOUSE, CHURCH, KERR & CO., 10 Bridge St., New York. White & Shupe, of Cleveland, are Archs. A plot of nearly 350 ft. square will be covered by the hotel, which will be of steel and concrete, five stories high. William N. Hollis, of Lancaster, Ohio, will be Gen. Mgr. of the new hotel. The hotel is to be ready for occupancy in one year.

EVANSTON, ILL.—The First Methodist Church of Evanston will erect a church on the site of the present building, soon to be torn down as unsafe. It will be Gothic in style and will be built of buff-colored Bedford limestone. In exterior appearance and in interior arrangement the new church will be similar to the one which now occupies the site. The building will have a seating capacity of 1,200 and will cost $160,000. Tallmadge & Watson, Security Bldg., Chicago, are Archs.

CHICAGO, ILL.—A theater is to be built on the West Side at a cost of $60,000 to seat more than 1,000 people. The new house, to be known as the Comedy, will be located at 379 North Ave., at the intersection of Girard Ave. It will be built by L. Schindler, who has leased it to Jones, Linick & Schaefer for a term of years. Edwin A. Seipp drew the plans. The building will be of brick, steel and reinforced-concrete construction, occupying a lot 61 × 127 ft. The front will be of pressed brick and stone. The stage will be large enough for the setting of almost any production, being 68 ft. wide and 30 ft. deep.

MILWAUKEE, WIS.—The Milwaukee Rescue Mission has raised a fund of $75,000 by popular subscription and Leenhouts & Guthrie, Archs., Miller Bldg., Milwaukee, have prepared plans and will call for bids in a short time for the construction of a 5-story reinforced-concrete building, to be erected on Sixth St., between State and Prairie Sts., 60 × 150 ft.

MILWAUKEE, WIS.—E. Brielmaier & Sons, Archs., 111 Madison St., are preparing plans for a $15,000 addition to St. Joseph's Hospital, Marshfield, Wis.; a sister house for Notre Dame Convent, Milwaukee, to cost $25,000; a church for the Catholic congregation at Phoenix, Ariz., to cost $40,000.

Milwaukee County Board of Supervisors has appointed Charles L. Lesser, 206 Grove St., and Herman Messmer, Archs. to draw up preliminary plans for locating proposed court-house in the proposed Civic Center. Estimated cost of court-house, $1,500,000.

The Chicago & Milwaukee Electric R. R. Co., through receivers, has closed lease for a building site at the north approach of the First Ave.-Sixth St. viaduct and plans to erect a depot, warehouse and express office. A. W. McLimont, Gen. Mgr., Highwood, Ill.

CLARINDA, IOWA.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., June 29, for the construction (complete) of the U. S. post-office at Clarinda.

ST. PAUL, MINN.—Finch, Van Slyck & McConville, wholesale dry goods, city, will erect a 10-story wholesale building at Fifth and Wacouta Sts. Actual construction will not begin until 1910. Cost, $400,000.

C. H. Johnston, Arch., Manhattan Bldg., city, is preparing plans for a pressed brick and marble Y. W. C. A. building, to be built on Fifth St., near Washington St. It will be five stories high, 120 × 85 ft., having steam heating, electric lighting, auditorium, electric passenger elevators, etc. Cost, $300,000.

*LEAD, S. DAK.—Bids are asked until 7 p. m., June 11, by the Board of Education, Lead, for installing complete blast steam heating and ventilating system with central boiler plant, for the High School and Assembly Hall Building. Carrie M. Voigt is Clerk. Plans and specifications are on file at the office of Engineering News, New York.

GREAT FALLS, MONT.—The contract for erection of the St. Thomas Orphans' Home has been let to JAMES DONLIN at about $80,000, and construction work will commence at once. This building is to be erected in the Central Ave. addition to the city of Great Falls.

ST. LOUIS, MO.—According to the St. Louis "Republic," the plans of the Municipal Courts buildings have been approved by the Board of Public Improvements in executive session, and ordinances authorizing the Board to award the contracts for the work will be introduced in the Municipal Assembly. Several minor changes were made in the plans submitted by Isaac Taylor, Arch., 715 Locust St., and the 157-ft. tower, included in the original drawings, will be omitted. The building will be so constructed, however, that the tower may be added at any later time. Mr. Taylor objected to the removal of the tower, saying it is needed to complete the architectural symmetry of the building, but the Board decided to leave it off as a matter of economy. Approximately $120,000 will be saved by this omission. From the estimates of the architect the new buildings will cost $1,502,080. There is $1,023,000 available from the original bond issue of $2,000,000, and the deficit will be met by the sale of either one or both of the two buildings now used in housing the departments which will be included in the new buildings. These are the Four Courts building, at Twelfth St. and Clark Ave., and the old City Hall at Eleventh and Market Sts. Under the present plans, the construction of the buildings adjacent to the new City Hall will be continued until the funds available about are exhausted and the old buildings then will be sold.

*SAN ANGELO, TEX.—Bids were received as follows on May 29 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office at San Angelo, Tex.: John Bardon, Fort Worth, Tex., $126,900; King Lumber Co., Charlottesville, Va., $138,800; General Construction Co., Milwaukee, Wis., $131,543.

*CORSICANA, TEX.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., July 6, for the construction (including plumbing, gas piping, heating, apparatus, electric conduits and wiring) of the U. S. post-office at Corsicana, Tex.

SPOKANE, WASH.—G. B. Dennis, Pres. Warehouse & Realty Co., advises us that the company will erect a reinforced-concrete cold storage building, six stories high, fireproof, 80 × 250 ft., set upon abutments 30 ft. high. The building will cost $200,000, and equipment $150,000. There will be erected also a hotel building, 150 × 100 ft., three stories high, of brick, to cost $100,000. Also a dry storage warehouse, 100 × 200 ft., four stories high, of reinforced concrete, to cost $200,000. Contracts will be let probably in October.

SEATTLE, WASH.—A public market building to be built of concrete with terra cotta trimmings and to cost, with the site, approximately $100,000, will be erected at the southeast corner of Broadway and Denny Way by Max Kreilsheimer, of Kreilsheimer Bros., and Charles Z. Frey. The plans have been prepared by Breezer Bros., Archs., Northern Bank Bldg.

PORTLAND, ORE.—M. W. Hunt and associates will erect a steel building on the northwest corner of Park and Morrison Sts. soon. The building will be eight or nine stories high.

SACRAMENTO, CAL.—Plans have been completed for a $100,000 building to be erected at Sixth and L Sts. by the Associated Catholic Societies of this city. The Sierra Hall, as the building will be known, will have a mammoth auditorium on the ground floor, capable of seating several hundred. The structure will be six stories in height and will contain lodge halls and rooms for all the societies. Probably one floor will be taken by the Knights of Columbus for a clubroom.

LOS ANGELES, CAL.—The Los Angeles-Pacific Ry. Co. will soon begin the construction of its proposed passenger depot at Pier Ave., Ocean Park. Hunt, Eager & Burns, Laughlin Block, are Archs.

FORT WINFIELD SCOTT (San Francisco post-office), CAL.—Bids are asked by Major George McK. Williamson, Q. M., Fort Mason, San Francisco, until 11 a. m., June 7, for constructing two single captains' quarters, one 4-set officers' quarters, two double N. C. O.'s quarters, two double firemen's quarters and two single barracks and installing plumbing, heating and electric wiring in same at Fort Winfield Scott, Cal.

SAN FRANCISCO, CAL.—The Terminal Hotel is to be built on the north side of Market St., one block from the ferry by the Terminal Investment Co., at a cost of $150,000. It is to have 250 rooms. W. B. Pringle is Pres. The Pringle Investment Co. is building a hotel on the site of the old Columbia Theater, which will be known probably as the Pringle Hotel. The Pringle Co. is the sole agent for the stores which are to be on the ground floor, for which there is already a demand. William Curlett, Mutual Savings Bank Bldg., is Arch. for both hotels.

Plans have been accepted by the San Francisco Savings Union for its banking house and building, to be erected at the northwest corner of Grant Ave. and O'Farrell St., with a third frontage on Bagley Pl., off O'Farrell St. The building is designed on bold lines, its facades being classic in the Ionic order and carried out in cut stone, in which the ornate cornices will be wrought. The lot upon which it will be erected has an area of 76 × 91 ft. In height the building will reach the average height of a building of five stories, although its monumental exterior will give it the appearance of a structure of but one or two stories. The entire exterior, including the dome, will be of white stone, but whether a limestone or granite has not yet been decided. Bliss & Faville, 15 Second St., are Archs.

At a meeting of the Board of Public Works May 21, the following contracts were awarded for the construction of the McKinley Primary School. F. H. BORN, general construction, $64,981; J. P. DOHERTY, plumbing, $5,600; GEORGE G. SUTTON & CO., heating and ventilating, $12,280; F. S. HANLEY, plastering, $11,600.

FORT DOUGLAS (Salt Lake City post-office), UTAH.—The officials at Fort Douglas have announced that the contract for the erection of one set of band barracks, which will cost $15,875, have been awarded to a firm of local contractors, T. & J. McDONALD. The officials also announce the awarding of the contract for two double barracks and the storehouse, which will cost $109,740, to W. W. ATKINSON, of Colorado Springs, Colo.

SALT LAKE, UTAH.—The COUNTY JAIL BUILDING CO., of St. Louis, Mo., was awarded the contract by the County Commissioners on May 10 to erect a building for the county jail on Second St., between Fourth and Fifth South Sts., facing the city and county building. The successful bid was $57,185.

TORONTO, ONT.—J. C. Eaton, Pres. of the T. Eaton Co., is having plans prepared for a residence to cost $110,000.

SELKIRK, MAN.—The Provincial Architect, Winnipeg, Man., is preparing plans for an addition to the insane asylum here to cost $100,000. It will be 152 × 92 ft., with three stories and basement, brick and stone construction.

WINNIPEG, MAN.—Montgomery Bros. have retained W. W. Blair, Arch., Northern Bank Bldg., to make plans for additions to the Queen's Hotel to cost $40,000.

WATER SUPPLY—IRRIGATION.

(* *denotes that this work is advertised in Engineering News.*)

CLAREMONT, N. H.—A new concrete overflow is to be constructed for the Contributing reservoir of the Claremont Water-Works, replacing the present wooden structure. James L. Rice is Supt. W.-W. Arthur W. Dudley is Designing Engr., Manchester.

HOLYOKE, MASS.—Contract for furnishing 6, 8, 10 and 12-in. valves for the Water Department has been awarded to the PRATT & CODY CO., Hartford, Conn.

*BETHEL, CONN.—We are officially advised that bids were received as follows on May 29 by the Board of Water Commissioners of the Borough of Bethol for the construction of a dam and pipe line: W. H. Arthur, Stamford, Conn., $35,574; Emerson Engineering & Construction Co., Bristol, $29,930; Eldridge & Grannis, Ossining, N. Y., $31,750; Alboro Contracting Co., 26 Cortlandt St., New York, $38,700; William T. McKibben Co., 1170 Broadway, New York, $37,545; Coughlin & Shells Co., 43 Tremont St., Boston, Mass., $30,785; Daniel O'Connell's Sons, 188 Hamden St., Holyoke, Mass., $37,837; F. J. Boas, 14 S. Broad St., Philadelphia, Pa., $27,009; Donato Cuozzo, Park Row Bldg., New York, $32,387; Michael Little & Co., Sterling, Mass., $27,106; Peter Sweeney, Danbury, Conn., $37,658; Holland, Emslie & Co., 5 Court Square Brooklyn, N. Y., $42,212. Scofield & Ford are Engrs., Bridgeport, Conn.

LONG ISLAND CITY (L. I.), N. Y.—Bids were opened on May 19 at the office of the Bureau of Water Supply, Gas and Electricity, New York, for furnishing and laying water mains in Long Island City, Flushing, Douglaston and Whitestone, Queens Borough. The lowest bid was that of John J. Hagerty, 298 Gold St., New York, at $67,123. Other bidders were: Robertson & Gerhart, Brooklyn, $73,005; Pease Bros., Flushing, L. I., $71,773; H. E. Fox, 60 West 125th St., New York, $75,876; Wilton Construction Co., 115 Elliot Ave., New York, $69,598; Long Island Contracting & Supply Co., Long Island City, $69,492; Soraci Contracting Co., 170 Broadway, New York, $76,248; Hanover Contracting Co., 215 West 125th St., New York, $103,786.

GLENS FALLS, N. Y.—Contract for constructing an earth reservoir dam about 75 ft. high, with a concrete core wall, on Butler Brook, bids opened on May 20, has been awarded by the Board of Water Commissioners to the KINGSBURY CONSTRUCTION CO., of Sandy Hill, at $72,110. List of bidders noted last week.

BUFFALO, N. Y.—F. G. Ward, Comr. Pub. Wks., on May 24, transmitted to the Board of Aldermen a copy of the bid of the Cataract Power & Conduit Co., 718 Fidelity Bldg., Buffalo, for supplying electric power at the water-works pumping station. He recommended that a contract be entered into for two years from July 1, this company being the lowest bidder on 2,700 HP., at the rate of $25 per HP., amounting to $67,500, used or not.

TROY, N. Y.—The Board of Contract and Supply on May 21 awarded to the U. S. CAST-IRON PIPE & FOUNDRY CO., 71 Broadway, New York, contract for water pipe for the proposed Mann Ave. water service at $22 per ton for 8-in., $22.90 for 6-in. and $50 per ton for specials.

NEW YORK, N. Y.—Bids were opened on June 1 by the Board of Water Supply for the construction of about 5.3 miles of the Catskill aqueduct, about five miles west of Newburg, in the towns of Newburg, Montgomery and Windsor, Orange County. It is to be a straight line of aqueduct all the way, 17 ft. high and 17½ ft. wide inside. The lowest bidder among eleven were the Pittsburg Contracting Co., at $1,675,290. The next lowest bid was that of the Rinehart & Dennis Co., Washington, D. C., which was $1,683,100. The highest bid, made by the Scott, Smith & White Co., was $2,346,120.

NEW YORK, N. Y.—Bids are asked by John H. O'Brien, Comr. Water Supply, Gas and Electricity, until 2 p. m., June 16, for hauling and laying water mains and appurtenances in the Borough of Brooklyn; and for furnishing all the labor and materials required to construct and erect a purification plant at Oakland Lake, Third Ward, Borough of Queens.

*COHOES, N. Y.—Bids for furnishing and constructing mechanical filters and appurtenances, stand-pipe and pumping machinery, will be received by the Board of Water Commissioners until 10 a. m., June 17. W. J. Quirk is Clk.

ALBANY, N. Y.—Bids are asked until 2 p. m., June 7, by the Board of Contract and

Supply for iron-body, bronze-mounted, double gate-valves for the Bureau of Water. Walter Mellus is City Engr.

MECHANICSVILLE, N. Y.—At a special election held on May 25 the project of constructing a new pumping station at a cost of $12,000 was authorized. The station will be built at Willow Glen, a suburb, at the junction of Baker and Plum Brooks. The plans were drawn by H. M. Geer, C. E. In the extreme dry season, it is estimated that the total volume of these two streams is 900,000 gallons every 24 hrs. By development of these sources the volume may be increased to 1,250,000 gallons without considering reservoir storage, which is estimated at 90,000,000 gallons. The total available supply under the combined sources for a period of four months would be 1,800,000 daily and leave in the reservoir a volume of 18,000,000 gallons.

HOBOKEN, N. J.—Bids will be received until June 7 by the Board of Water Commissioners, Edward Carroll, Pres., for laying a 16-in. water main in 15th and Madison Sts.

ALTOONA, PA.—Contract for 40,000 bbls. of cement to be used in the construction of a dam to be built at Kittanning Point, to furnish the city of Altoona with water, has been let to McKALLIN & CO., of Pittsburg. Work on the reservoir is to be started immediately.

*RIDGWAY, PA.—WILL DICKINSON, Ridgway, has secured contract, at $38,161, for constructing a reinforced-concrete reservoir for this borough, the work including 5,000 cu. yds. excavation, 1,350 cu. yds. embankment, 440 cu. yds. concrete in place, laying 140 lin. ft. 12-in. c.-i. pipe, 550 lin. ft. 4-in. drains, 810 lin. ft. 12-in. vitrified drain pipes, etc. Bids were opened on May 12. S. C. Chilcote is Secy.

BETHLEHEM, PA.—Bids will probably be received about July 1 by W. J. Fink, Boro. Secy., for the construction of the proposed water-works. R. E. Neumeyer is Boro. Engr. Alexander Potter, New York, is Consult. Engr.

PHILADELPHIA, PA.—Bids were opened on May 21 as follows by the Department of Public Safety for the installation of machinery and the construction of floors, etc., in the new high-pressure pumping station at Seventh and Lehigh Aves.: The John R. Wiggins Construction Co., Heed Bldg., Philadelphia, $25,950; the Millard Construction Co., Pennsylvania Bldg., Philadelphia, $29,748.

*READING, PA.—Bids will be received by the Board of Water Commissioners, 25 N. Eleventh St., Reading, until 7.30 p. m., June 22, separately, for the following work: Relining and covering Buttonwood St. reservoir, capacity 1,000,000 gallons; covering Penn St. reservoirs, with concrete vaulting, capacity 5,800,000 gallons; building Glen Gery dam, 8½ to 11 ft. high, 200 ft. long; building brick stable and wagon house, 22 × 123 ft. 9 ins. Lincoln S. Ramsey is Secy.

BALTIMORE, MD.—Bids are asked until 11 a. m., June 9, by the Board of Awards for furnishing pumps, boilers and pipe line for the high-pressure pumping plant of the Board of Fire Commissioners. B. T. Fendall is City Engr.

FT. HUNT, VA.—Bids will be received until June 16 by H. L. Pettus, Constructing Q. M., U. S. A., Washington, Takoma Substation, D. C., for construction of a pumphouse and 200,000-gallon reservoir, including pumping machinery, dynamos, etc., at Fort Hunt.

FT. McPHERSON, GA.—Bids are asked until 11 a. m., June 8, by Lieut. F. J. Osterman, Constructing Q. M., U. S. A., for connecting up and piping two new wells and repiping one old well for air lift.

COCCOA, GA.—Bids will be received until June 5 by John Edge, Chn. Water Com., for constructing a filter, etc. McCrary & Co. are Engrs., Empire Bldg., Atlanta.

PERRY, GA.—Hazlehurst & Anderson, Candler Bldg., Atlanta, have completed surveys for the proposed water-works. Estimated cost, $13,000 to $15,000.

BOGALUSA, ALA.—The Great Southern Lumber Co., W. H. Sullivan, Gen. Supt., has awarded contract to the AIKEN-O'REILLY CO., New Orleans, La., for extending water-works system. H. J. Cowgill is Engr.

BRISTOL, TENN.—The city, which extends municipal ownership to the water system, is planning the installation of the meter system. Estimated cost, $15,000.

MT. HEALTHY, OHIO.—Bids will be received by the Board of Trustees of Public Affairs, Frank R. Hunt, Clk., until June 12, for furnishing material and constructing water-works. George Hornung & Son, Johnson Bldg., Cincinnati, are Engrs.

LIMA, OHIO.—Bids will be received at the office of the Lima Water-Works until noon, June 4, for furnishing the following material: 1,000 ft. of 4-in., 1,000 ft. of 6-in. and approximately 272 tons of 12-in. standard c.-i. water pipe, and about 2,000 lbs. of specials.

HAGERSTOWN, IND.—The Town Board is preparing to ask for bids for the construction and installation of a standpipe or reservoir water plant.

CHICAGO, ILL.—Bids will be received until June 3 by the Board of Local Improvements, Charles A. V. Standish, Secy., for constructing water-supply pipes in Drake, Higgins, Peterson Aves. and ten other streets.

NORTH CHICAGO, ILL.—Bids are asked by the Bureau of Navigation, Navy Department, Washington, D. C., until noon, June 21, for the construction of water filtration and sewage disposal plants at the U. S. Naval Training Station, Great Lakes, North Chicago. Specifications are on file at the office of Engineering News, New York.

NORTH CHICAGO, ILL.—Bids will be received at the Bureau of Supplies and Accounts, Navy Department, Washington, D. C., until June 8 for constructing water, sewer and drain systems at the Naval Training Station, North Chicago, as per Schedule 1275.

WATERTOWN, WIS.—The Board of Water Commissioners on May 17 opened bids for the construction of 12,800 ft. of 4 and 6-in. water mains and let the contract to JIRTLE & SOMES, of Chicago Heights, at $8,818. Other bidders were: C. J. Crilly, Milwaukee, $9,372; Advance Con. Co., Waukesha, $9,551; W. Davidson, Wilmette, Ill., $9,730; J. M. Healy Co., Chicago, $10,225; T. H. Iglehart, Chicago, $10,088; O. Biefeld & Co., Watertown, $10,654; E. L. Bartlett, Watertown, $10,983; W. Fraser, Rochester, Minn., $10,780; F. E. Kaminski, Watertown, $10,882; Sweeney Bros., Reedsburg, $11,007.

WOODWARD, IOWA.—The Des Moines Bridge & Iron Co., of Des Moines, are preparing plans for the proposed water-works. Estimated cost, about $9,000. Charles Haworth is Town Clk.

LITTLE ROCK, IOWA.—The citizens on May 11 voted to issue $8,000 of bonds for the construction of water-works. The Turner-Ruland Co., of Des Moines, are Engrs.

CHASKA, MINN.—Bids are asked until 8 p. m., June 7, by J. M. Arets, City Clk., for extending water mains on Chestnut and Second Sts.

EAST GRAND FORKS, MINN.—Bids are asked until 3 p. m., June 7, by C. P. Zimmerman, City Clk., for constructing a 6-in. water main in several streets.

DELPHOS, KAN.—We are officially advised that the J. S. Worley Co., Reliance Bldg., Kansas City, Mo., is preparing plans and specifications for a water-works and electric light plant here.

GRAND FORKS, N. DAK.—Bids will be received about July 5 for laying water mains here. Estimated cost, about $22,000. R. E. Wickham, of Grand Forks, is Engr.

*FORT MEADE, S. DAK.—Bids in triplicate will be received by the Constructing Quartermaster, U. S. A., until 10 a. m., July 2, for constructing intake dam and pipe line for water system at Fort Meade.

HARLEM, MONT.—W. D. LOVELL, 1415 Eighth St. S. E., Minneapolis, Minn., has been awarded contract for installing water system at Fort Belknap Indian Agency, Mont.

ST. LOUIS, MO.—The Board of Public Improvements on May 22 rejected all bids received for water pipe, and will ask for new bids. Estimated cost, $150,000.

TEMBLE, TEX.—About $100,000 will be expended by the city for water-works extensions. R. T. Smith is City Engr.

DENISON, TEX.—The following are the bids opened on May 11 by the City Council for the new water-works dam. (a) complete, (b) partial construction: A. D. McCord, Dallas, (a) $50,590; Larkin Construction Co., Dallas, (a) $59,186; Irvine & Mills, Sherman, (b) $40,487; McSweeney Bros., Houston, (b) $38,299.

CARMEN, OKLA.—Bids will be received by the Chairman of the Board of Trustees until June 21 for the purchase of all material necessary in the construction of a system of water-works, including pipe, hydrants and valves, pumping machinery and boilers. O'Neil Engine Co., Dallas, Tex., are Engrs.

DENVER, COLO.—The Denver Reservoir Irrigation Co., have awarded to ROSSER & WHITTAKER, of Minneapolis, Minn., the contract, it is stated, for enlarging the intakes to the Standley and Barr Lake reservoirs. Estimated cost, about $400,000.

Plans of the Frank J. Macarthy Reservoir system for reclaiming large acreage in Morgan County, were filed with the State Engineer on May 18. The plans call for an expenditure of about $70,000 on the construction of four reservoirs along Bijou Creek. Filings are also made on the waters of Kiowa and Big and Little Antelope creeks and their tributaries. The reservoirs are to have a capacity of 508,552,000 cu. ft.

CLOVIS, N. MEX.—Bids will be received until June 16 by E. J. Feagan, City Clk., for furnishing material and constructing, complete, water-works, sewage and electric lighting systems. Burns & McDonnell are Engrs., Scarritt Bldg., Kansas City, Mo.

OROVILLE, WASH.—About $12,000 will be expended for constructing a pumping plant and reservoir. E. S. Taylor is City Clk.

SEATTLE, WASH.—Contracts have been awarded by the Board of Public Works as follows: North 83d St. and other streets, water-mains, to INTERNATIONAL CONTRACT CO., at $22,881; pipe-line in Sub-Division No. 4, Cedar River water supply system, to B. H. GRAFF, at $26,968.

MACKAY, IDAHO.—COREY BROS. CONSTRUCTION CO., of Ogden, Utah, has been awarded contract for the Big Lost River irrigation project near Mackay, which will consist of the following quantities: About 1,500,000 yds. steam shovel work on reservoir dam, 2,000,000 yds. scraper and machine work, two tunnels of 1,000 ft., 5,000 cu. yds. concrete, 10,000 yds. solid rock, 25,000 yds. loose rock and 100,000 ft. of timber in bridging work. Parties wishing to obtain subcontracts on this work should call or communicate with the Corey Bros. Construction Co.

*TORONTO, CAN.—Bids were opened at the office of Joseph Oliver Maynand, Chn. Bd. of Control, on May 18, for supply of material and the construction of the necessary works in connection with a water filtration plant. Contracts have been awarded as follows: To DILL, RUSSELL & CHAMBERS, of Toronto, for main contract, $568,129; to CANADA FOUNDRY CO., LTD., Davenport, Toronto, for iron pipe and specials, $10,892; manhole castings, $8,890, and sand washer castings, $871; to ALLIS-CHALMERS-BULLOCK CO., Montreal, Que., for screw pumps, $7,049, and electrically driven stage pumps, $5,234; to JOHN MacDOUGALL, Caledonian Iron Wks., Montreal, Que., for steam centrifugal pump, $9,484, and Venturi meter indicating apparatus, $3,318; to JOHN INGLIS CO., 14 Strachorn Ave., Toronto, for drainage pump, $1,600; boilers, $2,750, and Venturi meter castings, $2,891; to LUDLOW VALVE CO., Troy, N. Y., for gate valves, $8,773; to COFFIN VALVE CO., Neponset, Mass., for sluice valves, $85,209. Hazen & Whipple are Consulting Engrs., 103 Park Ave., New York; C. H. Rust is City Engr.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

BROOKLYN, N. Y.—Bids were opened on May 19 at the office of Bird S. Coler, Pres. Brooklyn Boro., for a sewer in Troutman St., from St. Nicholas Ave. to the borough line. Bids were submitted on the percentage basis as follows (engineers' estimate, $28,290): United Engineering & Construction Co., 32 East 33d St., New York, 108½%; William T. McKibbon Co., 1170 Broadway, New York, 113 9-10%; J. J. Creem Co., Brooklyn, 77 9-10%; Long Island Contracting & Supply Co., Long Island City, 92 7-10%; Sigretto & Bonacci Co., Brooklyn, 88%; Palladino & Co., Brooklyn, 89⅞%; Newman & Carey Co., Brooklyn, 93%; Vincent Mennino, Brooklyn, 90%; L. E. Kelly, Brooklyn, 97%; J. J. Haggerty, 298 Gold St., New York, 102%; Donigan & Redmond, Brooklyn, 98%.

SOUTH NYACK, N. Y.—Bids will be received by the Village Trustees until June 10 for the construction of seven sections of sewers. A. Themans is Village Clk.

NEW ROCHELLE, N. Y.—Bids will be received by the Board of Public Works until 8 p. m., June 8, for the construction of sewers in Mayflower Ave., between Clove Road and Mount Joy Pl., in accordance with plans and specifications on file in the office of the Board.

ALBANY, N. Y.—Bids are asked by the Board of Contract and Supply until 3 p. m., June 7, for the construction of a pipe sewer. Walter Mellus is City Engr.

NEW YORK, N. Y.—Bids are asked by Louis F. Haffen, Pres. Boro. of the Bronx, until 11 a. m., June 10, for sewers and receiving basins in various streets.

NEW YORK, N. Y.—Bids are asked by Bird S. Coler, Pres. Boro. of Brooklyn, until 11 a. m., June 16, for constructing sewers, etc., in various streets in the Boro. of Brooklyn.

*ONEONTA, N. Y.—Bids are asked until June 7, by Everett B. Holmes, City Clerk, for about 1,765 ft. of 8-in., 800 ft. 10-in., 2,350 ft. 12-in., 250 ft. 15-in., 1,840 ft. 4-frames and covers, 22 catch-basins with frames and grates, all in accordance with plans and specifications prepared by O. A. Miller, City Engr.

STONE HARBOR, N. J.—The Stone Harbor Sewer Co., of Camden, has been incorporated to operate a system of sewerage with a capital of $100,000. Incorporators are: R. P. D. and H. S. Risley, Stone Harbor; E. C. Waddington, Woodstown, N. J., and G. Starr, Woodbury.

CAPE MAY, N. J.—J. HARVEY BENNETT, Cape May, has been awarded contract for constructing about 2,000 ft. of sewers.

WASHINGTON, N. J.—Bids are asked by the Borough of Washington until 7.30 p. m., June 17, for 650 ft. of storm water sewer, vitrified pipe and concrete. A. J. Craft is Boro. Clerk; Robert P. Howell is Boro. Engr.

SCRANTON, PA.—The City Engineer's Department is preparing plans for a large sewer to drain the Diamond flats and other sections in that neighborhood, and a bond ordinance will probably be introduced in Councils to obtain funds for the city's share of the expense. It is proposed to build the sewer, or a large part of it, of concrete, extending from the intersection of North Main Ave. and Tripp's Ravine down the latter ravine to Providence Road, to Carbon St., along Carbon St. to Love Road and thence emptying into the river.

It is proposed to connect the trunk sewer with the sewer extending from Oram Boulevard to the Second Ward line. Other sewers to drain the cross streets have also been projected in the general plan to drain the northwestern section of the city.

NEW KENSINGTON, PA.—See item under Streets and Roads.

*NEWTON, VA.—Bids are asked by the town of Norton, Wise County, Va., until 1 p. m., June 15, for $50,000 of 5% 30-year sewerage and street improvement bonds. C. C. Hyatt is Chn. Finance Com.

SPARTANBURG, S. C.—P. J. O. SMITH, of this city, has been awarded the contract for constructing sewers on Wofford College campus and in Hall St. by the Contract Committee of the City Council at about $4,000.

ENSLEY, ALA.—The citizens on May 20 voted to issue $65,000 of bonds for sanitary and storm sewers.

*LOUISVILLE, KY.—Bids will be received by the Commissioners of Sewerage, W. O. Nones, Chn., until June 18, for constructing Section C-2 of the Beargrass interceptor, Contract 41; also until June 25, for Section A of the Northwestern sewer, Contract 42. J. B. F. Breed is Ch. Engr. Harrison P. Eddy, 14 Beacon St., Boston, Mass., is Consult. Engr.

Contract has been awarded by the Sewerage Commissioners for the construction of Section A of the Northwestern sewer to the BACKSTAFF ENGINEERING CO., of Philadelphia, at about $150,000.

*LOUISVILLE, KY.—Bids are asked until noon, July 2, by the Commissioners of Sewerage, for the construction of the 34th St. outlet sewer, Contract No. 44, of the Comprehensive System of Sewerage for the City of Louisville, Ky. J. B. F. Breed is Ch. Engr.

CINCINNATI, OHIO.—The City Council on May 17 passed an ordinance providing for the issue of bonds for $2,455,500 for the improvement of streets and sewers.

HAMILTON, OHIO.—The KAPS-BREHM CO., Cincinnati, Ohio, has been awarded contract for constructing storm sewer in East Ave., and W. H. LOUTHAN, Hamilton, for constructing sanitary sewer and house connections in North Eleventh St.

MIDDLETOWN, OHIO.—HECKER & KIRSCHNER, Dayton, have secured contract for constructing sanitary and drainage sewers in Fourth St., Garfield Ave., Leibee St., Young and Fairmount Aves., and JOHN ARPP, JR., for sanitary and drainage sewer in Jacoby Ave.

SOUTH BEND, IND.—Bids will be received by the Board of Public Works, W. A. McInerney, Pres., until June 18, for construction of the Meade St. trunk sewer. A. J. Hammond is City Engr.

EVANSVILLE, IND.—The NEWMAN CONSTRUCTION CO. has been awarded contracts, at $4,127 for the Taylor sewer, and at $3,274 for the Jackson Ave. sewer.

ANGOLA, IND.—We are officially advised that all bids opened on May 21 by the City Council for one main sewer and one disposal plant were rejected. New bids are asked until 7.30 p. m., June 10. Roy Hist is City Clk.

TRAVERSE CITY, MICH.—George S. Pierson, of Kalamazoo, Mich. has made preliminary survey for a sewage disposal plant. Estimated cost, $20,000.

PONTIAC, MICH.—LENNANE BROS., Detroit, Mich. have been awarded contract, at $3,151, for constructing several small sewers for this city.

CHICAGO, ILL.—Bids are asked until 11 a. m., June 3, by the Board of Local Improvements, C. A. V. Standish, Secy., for eleven contracts for constructing tile pipe sewers.

Bids will be received until June 4 by George M. Wisner, Ch. Engr. Sanitary District of Chicago, for constructing certain parts of a testing station, north and east of the 39th St. sewage pumping station.

CEDAR RAPIDS, IOWA.—Bids will be received until 10 a. m., June 5, by L. J. Storey, City Clk., for storm-water and sanitary sewers in S. Sixth, 15th, Tenth and other streets, requiring 30, 24, 12 and 8-in. vitrified pipe and 36-in. single ring brick sewer.

BETTENDORF, IOWA.—Charles P. Chase, of the Iowa Engineering Co., of Clinton, is preparing plans for a sewer system for Bettendorf. Estimated cost, $225,000.

ST. PAUL, MINN.—Bids will be received until June 3 by the Board of Public Works, M. J. McMahon, Clk. pro tem., for constructing sewers in Front and Kentucky Sts.

EAST GRAND FORKS, MINN.—Bids are asked until 3 p. m., June 7, by C. P. Zimmerman, City Clk., for constructing sewer in Third St., and a sewer in Fourth St., North and other streets.

ALBERT LEA, MINN.—We are officially advised that the time for receiving bids for the construction of a pipe and brick or concrete sewer, originally set for June 10 has been postponed. Bids will be called for shortly. William Barneck is City Engr.

MANHATTAN, KAN.—Bids will be received until June 15 for the construction of a sewer system, from plans of Burns & McDonnell, Scarritt Bldg., Kansas City, Mo. Estimated cost $76,000.

HURON, S. DAK.—M. HARRIS, Sioux Falls, S. Dak., was awarded contract by Council on May 14, at $49,760, for constructing a sewer.

NEOSHO, MO.—Plans have been completed for the construction of a sewer system. Estimated cost, about $40,000. John M. Sherwood, of Neosho, is Engr.

TACOMA, WASH.—O. J. OLSEN was awarded contract on May 17 to construct a sewer from Warner to Proctor Sts., between North Ninth and Twelfth Sts., at $36,654.

MONTREAL, QUE.—Bids are asked by John R. Barlow, City Surv., until noon, June 10, for the construction of sewers in various streets.

ST. THOMAS, ONT.—J. Y. HARPER, St. Thomas, Ont., has been awarded contract by the city, at $13,490, for constructing a sewage disposal plant. Bids were opened on May 21.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

LAWRENCE, MASS.—The HASSAM PAVING CO., of Worcester, has been awarded contract for paving with Hassam size block, on Hassam base, Essex St., bids opened May 19, at the following prices: 29,000 sq. yds. pavement, $2.84; 800 cu. yds. extra excavation, 40 cts. Total, $82,692.

LYNN, MASS.—JACOB JACQUES has been awarded contract, at $5,825, for paving William St., from Madison Ave. to Catherine St.

BOSTON, MASS.—WILLIAM E. HARVEY, of 100 Callender St., Roxbury, was awarded contract on May 25 by J. Edward Mullen, Supt. of Supplies, for furnishing the city with a total of 12,000 sq. ft. of North River limestone at 34 cts per sq. ft.

HARTFORD, CONN.—The contract for the construction of 2,699 lin. ft. of macadam road on the Middletown Turnpike in the town of North Haven, bids for which were opened on May 21, has been awarded to LAWRENCE BRUCE, North Haven, at $1.85 per lin. ft. for macadam, $2.46 for telford, and 28 cts. per lin. ft. for railing.

ALBANY, N. Y.—Bids are asked by the Board of Contract and Supply until 3 p. m., June 7, for the improvement of several streets. Walter Mellus is City Engr.

ALBANY, N. Y.—Bids for the improvement of Clinton Ave., from Quail St. to Manning Boulevard, received on May 17, were rejected on account of informality in bid. Walter Mellus is City Engr.

BROOKLYN, N. Y.—The following bids were opened on May 20 by the Park Board, New York, for repairing asphalt pavement on Glenmore Ave., Eastern Parkway extension, and the entrances to Prospect Park, Boro. of Brooklyn, (a) 4,640 sq. yds. asphalt pavement, .b) 176 cu. yds. concrete, (c) totals: Barber Asphalt Paving Co., 30 Church St., New York, (a) $1.41, (b) $7, (c) $7,774; Cranford Co., 190 Montague St., Brooklyn, (a) $1.75, (b) $6.75, (c) $9,308; Uvalde Asphalt Paving Co., 1 Broadway, New York, (a) $1.35, (b) $5.50, (c) $7,232.

Bids were opened on May 19 at the office of Bird S. Coler, Pres. Brooklyn Boro., for regulating and repaving with asphalt on concrete foundation Ralph St. The UVALDE ASPHALT PAVING CO., 1 Broadway, New York, secured the contract at the following prices: 11,190 sq. yds. asphalt pavement, five years' maintenance, 92 cts.; 50 sq. yds. old stone pavement, relaid, 40 cts.; 1,550 cu. yds. concrete, $5; 5,280 lin. ft. new curb, set in concrete, 98 cts.; 1,320 lin. ft. old curb, reset in concrete, 60 cts.; 31 noiseless manhole heads and covers, each $15. Total, $24,496. Other bids were: Cranford Co., 190 Montague St., $25,574; Barber Asphalt Paving Co., $24,891.

Bids were opened same time and place for repaving with granite on concrete foundation, Flushing Ave. The contract was awarded to JAMES QUINN CONTRACTING CO., 36 Kenmore Pl., Brooklyn, at $20,799. Other bids were: Henry P. George, Richmond Hill, $21,635; Norton & Gorman, 301 Douglass St., Brooklyn, $22,053; Atlanta Construction Co., 434 East 91st St., New York, $21,511.

BROOKLYN, N. Y.—Bids are asked by Bird S. Coler, Boro. Pres., until 11 a. m., June 16, for regulating, grading, curbing and laying sidewalks on various streets; also for paving gravel, paving cement and refined asphalt.

Bids are asked until 11 a. m., June 9, by Bird S. Coler, Boro. Pres., for regulating and repaving with granite pavement on a concrete foundation a portion of the roadway of Fleeman Ave., from Flushing Ave. to Bulkhead Line, together with all work incidental thereto.

HARRISON, N. Y.—Contracts for macadam pavement, with asphalt binder, have been awarded as follows: To JOHN MERRITT CONTRACTING CO., Portchester, for 8,450 sq. yds. on Polly Park Road, $13,932; to HARVEY B. SPROUL, Peekskill, for 3,000 sq. yds. on West and Hancock Sts., $8,820; to JOHN TWINAME, White Plains, for 9,450 sq. yds. on Union and Locust Ave. and North St., about 9,450 sq. yds., $17,479. Frank P. Coxe is Town Clk.

GREENBURGH, N. Y.—Bids will be received until 2.30 p. m., June 15, at the office of the Town Clerk of Greenburgh, Westchester County, for grading and macadamizing Lakeview Ave. and Lawton Ave. at Hartsdale, N. Y., a distance of 1,255 lin. ft. Robert Dashwood is Town Clk.

JAMAICA (L. I.), N. Y.—TWOMBLEY & ELDERT, of Jamaica, have secured contract, it is stated, from the Jamaica Estates involving about $250,000 worth of work on about 50 acres of the 700-acre tract on the hills north of the village on Hillside Ave. The work consists of the removal of 135,000 cu. yds. of material in the grading work, 80,000 sq. yds. of macadam roads, 330,000 sq. ft. of concrete sidewalk, eight miles of sewer mains and laying gas mains and installation of electric lights.

ROCHESTER, N. Y.—The Board of Contract and Supply awarded on May 13 contracts for paving as follows: To WHITMORE, RAUBER & VICINUS, 270 South Ave., East Ave., at $28,286; to JULIUS FRIEDERICH & CO., Lincoln St., at $12,002.

PELHAM, N. Y.—Bids will be received by the Board of Village Trustees, N. White, Pres., until June 8, for furnishing material and laying 40,000 lin. ft. of cement sidewalks and 15,000 sq. yds. of macadam. John F. Fairchild is Village Engr., 34 E. First St., Mt. Vernon.

NEW YORK, N. Y.—Bids are asked until 11 a. m., June 10, by Louis F. Haffen, Pres. Boro. Bronx, for paving with asphalt and granite blocks and repaving with asphalt, asphalt blocks and granite blocks, various streets; also regulating, grading, setting curbstones, etc.

NEW YORK, N. Y.—Bids are asked by Louis F. Haffen, Pres. Boro. Bronx, until 11 a. m., June 15, for paving and repaving, regulating, etc.

NEW YORK, N. Y.—Bids are asked by the Department of Public Charities until 2.30 p. m., June 14, for furnishing all the labor and materials necessary for regulating, grading, drainage, walk construction and planting about the City Hospital District and the Metropolitan Hospital District, Blackwell's Island, City of New York.

*FORT TOTTEN, N. Y.—Bids are asked until 11 a. m., June 22, by the Constructing Quartermaster, U. S. A., for 2,100 cu. yds. excavation, 480 ft. of sewer and 100 sq. ft. of concrete walk.

*RIDGEFIELD PARK, N. J.—Bids for the construction of roads, curbs and gutters in the village will be received by the Board of Trustees, until 8.30 p. m., June 14. A. V. Morrison is Clk.

PITTSBURGH, PA.—Bids are asked until noon, June 11, by R. J. Cunningham, County Audr., for the permanent improvement of the Steubenville pike and Eulow road for 3.1 miles, the Bakerstown and Valencia road for 5.41 miles and the Stoops Ferry and Shousetown extension road for 1.33 miles. George T. Barnsley is Ch. Rd. Engr., Court-House.

ARNOLD, PA.—We are officially advised that George B. Campbell, Jr., Boro. Engr., is preparing plans and specifications for 10,000 sq. yds. of paving and 5,800 lin. ft. of cement curb and gutter combined; also plans for 2,400 lin. ft. of 24-in. storm sewers. The specifications for the foundation for the paving will call for 8 ins. of granulated machine slag and 2-in. sand cushion. This work will be probably let within 60 days.

MOUNT PLEASANT, PA.—Bids will be received at the office of the Borough Secretary, Mount Pleasant, until 8 p. m., June 15, for grading, curbing and paving the following streets: Eagle St., from Main St. to South Church St., 3,279 cu. yds. excavating, 3,734 lin. ft. curbing, 4,530 sq. yds. paving; Walnut St., from Eagle St. to Church St., 692 cu. yds. excavating, 1,144 lin. ft. curbing, 1,160 sq. yds. paving; College Ave., from Main St. to Eagle St., 2,710 cu. yds. excavating, 3,530 lin. ft. curbing, 4,135 sq. yds. paving; also for sewering Eagle and Spring Sts. and Eagle St. and Zuck Alley.

ERIE, PA.—JOHN McCORMICK & SON have been awarded contract at $1.47 per sq. yd. for paving Poplar St., from Sixth St. to North Park Ave., with class B asphalt. The contract calls for cement curb and gutter.

NEW KENSINGTON, PA.—We are officially advised that G. B. Campbell, Jr., Boro. Engr., has prepared plans and specifications for paving North Canal St. with either vitrified paving brick or asphalt paving block. Quantities: 7,100 sq. yds. of paving, 3,265 lin. ft. of stone curbing, 336 lin. ft. of concrete wall. Bids will be asked soon. The same borough let a contract for 1,060 ft. 24-in. sewer to RIDGE BROS. CO., of Pittsburg, Pa., prices as follows: 24-in. pipe, per lin. ft., $1.57; manholes, complete with castings, $30; storm drops, $50 each, complete with castings and connected with sewer; lamp holes, each $5. The above sewer is a storm sewer to take the surface water.

FT. DUPONT (Delaware City post-office), DEL.—Bids will be received by the Quartermaster, U. S. A., Ft. Dupont, until 11 a. m., June 25, for macadam roads, granolithic sidewalks, curb and gutter, and fill at Ft. Dupont.

TOWSON, MD.—Patrick Reddington, 325 St. Paul St., Baltimore, it is stated, submitted the lowest bid for improving a portion of First Ave., at $39,985 with bituminous filler, and $38,425 with combination filler.

*BALTIMORE, MD.—Bids are asked by the State Roads Commission, Baltimore, until noon, June 11, for constructing eight sections of state highway, aggregating about 19 miles. John M. Tucker is Chn.

*WASHINGTON, D. C.—Contracts for paving, bids opened on May 15, have been awarded by the Commissioners of the District of Columbia as follows: To the CRANFORD CO., of Washington, for laying about 38,500 sq. yds. standard asphalt pavement, 2½-in. asphalt surface, 2-in. binder, before compression, with 6-in. concrete base, at $1.45½ per sq. yd., and laying about 3,000 sq. yds. vitrified block with 6-in. concrete base, at $1.21 per sq. yd; to the WASHINGTON ASPHALT BLOCK & TILE CO., of Washington, for laying 5-in. asphalt block pavement with gravel base, inside old city limits, at $1.80 per sq. yd., and 4-in. at $1.65 and at $1.80 per sq yd., outside old city limits and west of Rock Creek, and for laying 3-in. asphalt-block pavement, with 4-in. concrete base, at $2 per sq. yd. C. B. Hunt is Ch. Engr. of Highways. List of bidders noted on May 20.

*NORFOLK, VA.—Bids will be received by the Local Board of Improvement, Seventh Ward, until noon, June 10, at the office of J. D. Hank, Jr., Secy., Law Bldg., for the paving of 34th St., from Granby to Colley Aves. with some smooth pavement. Approximately 10,300 sq. yds. pavement and 4,800 lin. ft. curbing.

*FT. MONROE, VA.—The lowest bid opened on May 17 by Capt. Ernest R. Tilton, Const. Q. M., U. S. A., Ft. Monroe, for filling, grading, surfacing and constructing concrete walks, brick gutters and macadam roads around Artillery School buildings, was that of Alsop & Peirce, of Newport News, Va., as follows: Macadam roads, 98 cts. per sq. yds.; catch basins, $18 each; gutters, brick, 24 cts. per lin. ft.; tile drain, 30 cts. per lin. ft.; area between buildings, 17 cts. per lin. ft.; concrete curb, 58 cts. per lin. ft.; sidewalks, new, 15½ cts. per sq. ft; old, 18 cts. per sq. ft.; fill, ordinary, 64 cts. per cu. yd. and top soil, $1.58 per cu. yd.

HAYMARKET, VA.—Bids will be received until June 5 by P. St. John Wilson, State Highway Comr., Richmond, for constructing three miles of macadam road in Haymarket, Prince William County.

*NORFOLK, VA.—Bids will be received by the Board of Local Improvements, Seventh Ward, J. D. Hank, Jr., Secy., until June 10, for paving 34th St. with smooth pavement, about 10,300 sq. yds. and 4,800 lin. ft. curb.

ARLINGTON, VA.—Bids are asked until 1 a. m., June 14, by Major M. Gray Zalinski, B. M., U. S., A., Wasington, D. C., for grading, installing drainage, etc., at the Arlington National Cemetery.

ANDREWS, N. C.—Bids are asked until 4 p. m., June 7, by the Highway Commissioner for macadamizing about seven miles of roads.

SOUTH JACKSONVILLE, FLA.—The Board of County Commissioners, Jacksonville, on May 14 awarded contract for constructing one mile of concrete roadway from South Jacksonville to Pablo Beach to the LOGAN COAL & SUPPLY CO., at $1.02 per sq. yd.

BESSEMER, ALA.—P. H. O'BRIEN, Bessemer, Ala., was awarded contract on May 18 by the city, at $1.64 per sq. yd., for laying 15,837 sq. yds. brick pavement on 5-in. concrete base. Phil Lacey is City Engr.

GREENVILLE, OHIO.—Bids are asked until 10 a. m., June 5, by James R. Marker, County Surv., for construction of the Vankey road improvement, consisting of six sections of 2,640 ft. each and one section of 2,460 ft.; also for the Gibson, Berry and Beam road improvement, consisting of one section of 2,640 ft. and one section of 2,588 ft.

YOUNGSTOWN, OHIO.—The CLEVELAND TRINIDAD ASPHALT CO., Cleveland, has been awarded contract, at $6,974, for repaving on East Federal St.

COLUMBUS, OHIO.—Bids are asked until 2 p. m., June 18, by the County Commissioners, John Scott, Clk., for grading and macadamizing the Chillicothe pike for a distance of 1.84 miles.

COLUMBUS, OHIO.—Bids will be received at the office of the Commissioners of Tuscarawas County, until noon, June 8, for grading and paving with brick 1.49 miles of road in Goshen Township, under the provisions of the state highway law. James C. Wonders is State Highway Comr.

CLEVELAND, OHIO.—Bids are asked until 11 a. m., June 16, by the County Commissioners, William F. Black, Clk., for grading draining and improving Chardon road from Euclid Village easterly to Cuyahoga County line.

MARIETTA, OHIO.—Bids were opened on May 8 by the Board of Public Service, James F. Hovery, Clk., for paving Greene St. with brick block, requiring 7,681 sq. yds. paving, 4,427 ft. curb etc. Contract has been awarded to W. C. PETERS, of Marietta, at about $12,000. E. Frank Gates is City Engr.

OAKLEY, OHIO.—J. T. O'BRIEN, 1215 Main St., Norwood, Ohio, has been awarded contract, at $42,581, for grading, macadamizing and curbing Columbia road and constructing 12-in. sewers. Bids were opened on May 18 by Oscar Koesche, Village Clk.

STEUBENVILLE, OHIO.—Bids will be received by the Board of Public Service until noon, June 6, for furnishing the necessary labor and material for repaving and the necessary curbing of Third St., from Market St. to Adams St. H. G. Simpson is Clk.

SOUTH BEND, IND.—Bids are asked by the Board of Public Works until 10 a. m., June 18, for paving Leland Ave. with tarvia-macadam pavement and for the construction of a trunk sewer in Linden, Mead and Kenwood Sts., and pipe sewers in Bartlet St. and Linden Ave. W. A. McInerny is Chn.

WASHINGTON, IND.—Bids will be received by the Commissioners of Daviess County until 10 a. m., June 8, for the construction of the John S. Agan gravel road. Thomas Nugent is County Audr.

GREENFIELD, IND.—Bids are asked by the Commissioners of Oancock County until 10 a. m., June 7, for the construction of 15,840 ft. of gravel road in Buckcreek Township, and for the construction of three miles of gravel road on the line between Vernon and Green Townships. Charles H. Troy is County Audr.

TERRE HAUTE, IND.—Bids will be received by the Commissioners of Vigo County until 11 a. m., June 15, for the construction of 5.027 ft. of macadam rock road in Honey Creek Township. N. G. Wallace is County Audr.

NEW CASTLE, IND.—C. S. Hernley, Ben Briscoe, Pres. Maxwell-Briscoe Auto Motor Car Co., and others are preparing to construct an automobile highway from this city to Chicago, by way of Indianapolis. Estimated cost, $1,500,000. Thirty miles will be built this year.

LANSING, MICH.—The following bids were opened on May 27 by the city for paving Kalamazoo St., from Capital Ave. to River St.: Fitzpatrick & Gordon, $11,600; McKale & Clark, $11,594; S. Champion, $10,900; Frank Farrell, $10,900; Kneal & Ryan, $10,125.

MANISTEE, MICH.—We are officially advised that the city will pave by day labor 5,400 yds. with brick on concrete with tar or asphalt filler. Bids are asked on material until June 15. George B. Pike is City Engr.

MENOMINEE, MICH.—The Common Council has authorized a bond issue for $30,000 for street and sewer improvements.

ELGIN, ILL.—The McCARTHY IMPROVEMENT CO., Davenport, Iowa, has secured contract, at $60,300, for paving Dundee Ave. and Center St. with 27,985 sq. yds. of brick and 3,679 sq. yds. of asphalt, including curb and gutter. Other bids received were: A. D. Thompson, Peoria, Ill., $62,944; Logan & Gertz Construction Co., Elgin, Ill., $63,270; Arwin E. Price, Elgin, $65,362; Cain Construction Co., Chicago, Ill., $65,498; Smith & Brown, Chicago, Ill., $66,392; Peter Bros. Paving Co., Chicago, Ill., $75,295. C. E. Plum is City Engr.

CHICAGO, ILL.—The contract for paving with brick State St., from 39th to 63d Sts., was awarded on May 25 by the Board of Local Improvements to the UNION PAVING CO., the low bidder. The contract amounts to approximately $200,000. The price to be paid is $2.12 a sq. yd. On the original advertisement Joseph Hanreddy was the low bidder, but all bids were rejected because of a legal technicality. J. J. Hanberg is Comr.

ANTIGO, WIS.—The Board of Public Works has recommended a bond issue of $25,000 for paving ten blocks with brick.

LAKE MILLS, WIS.—J. W. MITCHELL, Madison, Wis., has been awarded contract, at $20,000 for constructing about 22,200 sq. yds. of asphalt macadam pavement. The work includes curb and gutters. Bids were opened on May 20.

BELOIT, WIS.—The Board of Public Wks. opened bids on May 27 for 12,310 sq. yds. of macadam pavement, and 6,740 ft. of combined curb and gutter. J. Rasmussen & Sons, of Oshkosh, were the lowest bidders at 89 cts. per yd. for paving and 43½ cts. per ft. for curb.

DES MOINES, IOWA.—The BRYANT-FORD-McLAUGHLIN CO., of Waterloo, Iowa, has been awarded contract by City Council for paving West Fifth St., from Ascension to University Sts., and on West Twelfth St., from Forest to Carpenter Sts., and O. P. HERRICK, for paving East Maple St., from First to Second Sts. The CHRISTIE CONSTRUCTION CO. and GEO. M. KING CO. secured contracts for the curbing.

CEDAR RAPIDS, IOWA.—Bids will be received until June 5 by L. I. [illegible], City Clk., for constructing brick blocks on concrete foundations on Tenth, Twelfth, South First and other street; also for paving with tar-filled macadam Park [illegible] Second Ave. and several other streets.

SIOUX CITY, IOWA.—Contracts for paving with creosoted wood block, [illegible] opened on May 18, Nebraska St., has been awarded by the city to the KETTLE RIVER QUARRIES CO., Minneapolis, Minn., at [illegible] per sq. yd. The contract for paving [illegible] and Pearl Sts., with asphalt, has been awarded to the BRYANT-FORD-McLAUGHLIN CO., of Waterloo, at $1.49 per sq. yd.

ST. PAUL, MINN.—Bids are asked until 2 p. m., June 7, by the Park Commissioners, George T. Redington, Secy., for grading Wheelock Parkway.

OMAHA, NEB.—The city has awarded contracts amounting to $275,000 for paving. HUGH MURPHY and CHARLES FANNING were awarded the greater portion of the work.

BELTON, MO.—C. W. DOBBINS, Pleasant Hill, Mo., has secured contract, at $8,740, for grading and macadamizing about 2½ miles of 16-ft. road.

*KANSAS CITY, MO.—Bids will be received by the Board of Public Works until 2 p. m., June 9, for furnishing and erecting, complete, ready for service, an asphalt paving plant. Robert W. Goodnow is Secy.

The Board of Public Improvements on May 11 awarded contracts for paving as follows: PARKER WASHINGTON CO., 2309 Penn Ave., asphalt, Montclair St., $3,898; Hammett Pl., $11,502; Catalpa St., $4,767; Page St., $4,653, and Rosalie St., $1,707; BARBER ASPHALT PAVING CO., Colonial Security Bldg., with asphalt Oak Hill, $11,998; TRINIDAD ASPHALT MFG. CO., 320 S. 2-st St., St. Louis, with asphalt Vista St., between Boyle and Taylor Sts., $19,727; JAMES T. McMAHON, with brick, College St., $10,967; Farlin St., $4,988; RUECKING CONSTRUCTION CO., with brick, Vermont St., $9,680; Oregon St., $10,316, Bates St., $7,491; Bowen St., $2,184, and Manchester St., with bitulithic, between Sublette and Tamm, $35,051; GILSONITE CONSTRUCTION CO., with brick, De Soto St., $8,887; FRANK A. STIERS, Howard St., with brick, $3,791; WILLIAM R. BASH CONSTRUCTION CO., with brick, Manchester St., between Prather and western city limits, $15,447; GRANITE BITUMINOUS PAVING CO., with bitulithic, Von Versen St., $13,196; Clay St., $11,824, and Vista St., $18,606, between Grand and Vandeventer St.

ST. LOUIS, MO.—Bids are asked by the Board of Public Improvements until noon, June 15, for improving various streets. W. B. Dryden is Secy.

EL PASO, TEX.—Plans and specifications, it is stated, have been prepared for the Valley road, to extend from Ysleta to Fabens and from the city limits to New Mexico line. Bids will soon be asked, it is understood, by the County Comrs. for construction.

SEATTLE, WASH.—The Board of Public Works has let contracts for the following street improvements: Twelfth Ave. West and other streets, grading, etc., to McDERMOTT & DRISCOL, at $9,870; Madison St., from Third Ave. to Ninth Ave., concrete walks, to FRITCH & CO., $4,262; Second Ave., N. W., and other streets, grading, etc., to H. D. MASTERSON, at $33,809. R. H. Thomson is City Engr.

LOS ANGELES, CAL.—The City Market Co. let a contract on May 15 for the paving of its site at San Julian, Ninth and San Pedro Sts. The amount involved is about $20,000. FAIRCHILD-GILMORE CO. received the contract.

*WINNIPEG, MAN.—The City, J. W. Astley, Engr. of Construction, Winnipeg, Man., has been awarded contract at $2.75 per sq. yd., for 33,906 sq. yds. of asphalt pavement. Bids were opened on May 20.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

NASHUA, N. H.—The Estabrook-Anderson Shoe Co., which has a plant here, with a manufacturing capacity of 12,000 pairs of shoes daily, plans building an additional factory to be 600 ft. in length, 65 ft. wide and four stories high, which will permit an increase in the manufacturing capacity of 8,000 pairs of shoes daily.

NORTH BROOKFIELD, MASS.—The Directors of the Oxford Linen Mills have awarded contracts for the erection of three new reinforced concrete buildings to the EASTERN CONCRETE CONSTRUCTION CO., of Boston. These buildings will cost in the neighborhood of $150,000. The machinery to be used in them will cost, it is estimated, another $150,000. The weave shed will be 180 ft. long and 77 ft. wide, three stories in height. The new bleach house and storage warehouse will be practically as one, will be 154 ft. long, 61 ft. wide and four stories high. The present establishment employs 118 people, and the new one will have room for 450.

WORCESTER, MASS.—We are officially advised that E. J. CROSS, of Worcester, Mass., has secured the contract to erect a 5-story addition to the factory of the Grafton & Knight Mfg. Co.

BUFFALO, N. Y.—The Husted Milling & Elevator Co. will erect a feed mill at Prenatt St. and N. Y. C. & St. L. R. R. tracks, to replace mill recently destroyed by fire. Cost, $50,000.

The Danaby Packing Co. will build a 2-story brick cooling house, 60 x 75 ft. at its

plant at Metcalfe and Clinton Sts. Cost, $15,000. Wannenwetsch & Co., 563 William St., Archs., have prepared plans for same.

LOCKPORT, N. Y.—The Lockport Rubber Works, whose plant was recently destroyed by fire, has decided to rebuild here on a 20-acre site, which has been donated. Charles F. U. Kelley is Pres.

The United Indurated Fiber Co., controlled by the H. W. Johns-Manville Co., New York, has had plans prepared for additions to its plant at East Lockport, which will be built this summer.

NORTH TONAWANDA, N. Y.—The DUROLITHIC CO., of Buffalo, has been awarded contract for erection of addition to factory of the Buffalo Sled Co., on Schenck St. The building will be 40 × 150 ft., 3-story, of concrete block fireproof construction.

NEW YORK, N. Y.—Bids are asked by Robert W. Hebberd, Comr. Dept. of Public Charities, until 2.30, June 15, for providing all labor and materials necessary or required for the excavation, masonry, steel and iron work, roofing and metal work, carpentry, electric work, elevator work, heating work, laundry plant, plumbing work and all other work, as set forth in the drawings and specifications for the alteration, repair, construction and entire completion of a heating plant and of the laundry for the Metropolitan Hospital District, Blackwell's Island, Boro. of Manhattan, the City of New York.

GROVE CITY, PA.—The Bessemer Gas Engine Co. will build an addition to the plant here. Plans and specifications are now being prepared by the company's engineers. Contracts will not be awarded before the middle of the coming summer. Bids are now being taken for the removal of about 4,000 cu. yds. of earth from the company's property to provide a site for the new addition. No closing time is set for the excavation.

BRIDGEPORT, PA.—Plans have been prepared by Fletcher & Link, Engrs., for the construction of an immense tubing mill and power plant on Housatonic Ave., for the two large 4-story additions to the plant of the Bridgeport Brass Co., on East Main St., calling for an expenditure of about $300,000.

FRANKFORD, PA.—An extension is to be built to the plant of the Wallace Wilson Hosiery Co., Inc., northeast corner of Orchard and Imogene Sts., Frankford, to cost $37,000. GEORGE A. THIRSK has been awarded the contract.

McKEESPORT, PA.—The McKeesport Tin Plate Co. will double its capacity by erecting a new plant adjoining the old one in Portvue. With the erection of the plant 800 more men will be employed. The company is an independent concern and has been in operation eight years. The W. Dewees Wood Mill, a subsidiary plant, will open at once.

AIKEN, S. C.—W. D. McNeal, of Fayetteville, N. C., John A. Seigler, John Moseley, R. B. Carter, Hastings Wyman and others of Aiken, S. C., will incorporate and organize a company to build a large cotton manufacturing plant at Aiken. They have interested New York capital in the proposition and expect to formulate plans at once for a modern plant. A site of 700 acres of land has been optioned and a mill village will be located. The site includes a waterpower from which 250 HP. can be developed and a like amount of horsepower will be obtained by a steam plant.

GENEVA, ALA.—See item under Light and Power Plants.

TOLEDO, OHIO.—The Shaw-Kendall Engineering Co., South Superior St., has purchased from John F. Wernert the vacant property owned by the latter on Huron St., between the Shaw-Kendall plant and Swan Creek. The lot has a frontage on Huron St. of 50 ft. and is 200 ft. deep. It will be used by the purchaser for the extension of its plant and will be improved by the erection of a factory building.

DELAWARE, OHIO.—Bids are asked by the Board of Trustees of the Girls' Industrial Home, Delaware, Ohio, until 4.30 p. m., June 15, for installation of a cold storage equipment in the cold storage building at the Girls' Industrial Home, Delaware, Delaware County, Ohio. T. F. Dye is Secy.

NORTH JUDSON, IND.—The North Judson Glass Co., recently incorporated, will establish and equip a glass factory here. William F. Modes is Pres.

FORT WAYNE, IND.—R. P. Hinman and Col. Foster are preparing to build a woolen factory in this city.

GOSHEN, IND.—C. Dembufsky & Sons have ordered plans on which to receive bids for erection of a mill and warehouse on South St.

MARION, IND.—B. G. Ackerman will soon ask for bids for the erection of a factory building on the site of the plant recently destroyed by fire.

AMO, IND.—The Amo Mill & Elevator Co. will ask for bids in a short time for erection and equipment of a mill and elevator. Estimated cost, $16,000. H. E. Laura is Pres.

INDIANAPOLIS, IND.—The National Coning Co. has ordered plans for a factory building. Estimated cost of factory and equipment, $500,000. William A. Scott, A. C. Wood and M. W. Hopkins are Directors.

CHICAGO, ILL.—On about 56 acres of land, which they have acquired along the south branch of the Chicago River at 33d St. and Kedzie Ave., the Liquid Carbonic Co. will begin construction in a few days of a plant that will cost about $500,000. Jacob Baur and Oscar Baur, two officers of the company, have taken title to the last piece of the tract for which they were negotiating, and will carry out their building plans immediately. The Liquid Carbonic Co., which is now located at 67 Wells St., will erect a 6-story and basement reinforced concrete building, with a frontage of 1,000 ft. Besides this main building, there will be a number of smaller ones. All will be used for manufacturing purposes.

MADISON, WIS.—J. H. Findorff will rebuild immediatey the planing mill destroyed by fire on May 13. The plant will be of brick construction, one story and 56 × 126 ft.

WAUKESHA, WIS.—The Waukesha Motor Co. has increased its capital stock from $25,000 to $100,000 and will erect a factory here. It will be of mill construction, solid brick, one story high, with sawtooth roof and 100 × 100 ft. Cost, $35,000 to $50,000.

CENTROPOLIS, KAN.—Douglas & Co., of Cedar Rapids, Iowa, will erect a starch factory here at Crystal Ave. and 19th St., in Centropolis, to cost $175,000.

FAYETTEVILLE, ARK.—B. N. Wilson, Professor of Mechanical Engineering, University of Arkansas, advises us that the Mechanical Engineering Department contemplates installation of new equipment in the shops and laboratory within the next few months.

WHEATLEY, ARK.—OLSEN & LESH, of Memphis, Tenn., have been awarded the contract for the erection of the new rice mill which is to be built at Wheatley, Ark. Cost, $60,000. The plant will be built by the Wheatley Rice Mill & Power Co.

EL RENO, OKLA.—D. C. Harris, of the Columbus (Miss.) Yarn & Textile Mills, contemplates building an underwear knitting mill at El Reno, the daily capacity of which will be 125 dozen garments.

BRANDON, MAN.—The National Elevator Co., of this city, will erect 22 grain elevators in Western Canada this summer.

CALGARY, ALTA.—The Great West Grain & Elevator Co. will erect 19 grain elevators in Alberta this summer. H. F. Gillespie is Mgr.

LOGGIEVILLE, N. B.—Bids will be received by M. J. Butler, Chn. of the Intercolonial R. R. Comn., until June 10, for a 3-stall engine house, turntable, ring-wall, freight shed, loading platform and a number of alterations here.

MISCELLANEOUS CONTRACTS.

(denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—Items regarding irrigation, canal projects, etc., will be found under Water Supply—Irrigation.

GREENHOUSE.—La Fayette, Ind.—See item under Buildings.

*UNDERPASS OR UNDERGRADE CROSSING.—See item under Railways: "Louisville & Nashville."

WALL.—Washington, D. C.—Bids are asked by the District Commissioners, until June 14, for building a facade wall in District of Columbia.

*DREDGING.—New London, Conn.—Bids are asked until noon, June 15, by Maj. Harry Taylor, Corps Engrs., U. S. A., for dredging in New Haven Harbor.

*DREDGING.—Newport, R. I.—Bids are asked until 11 a. m., June 29, by Lieut.-Col. J. C. Sanford, Corps Engrs., U. S. A., for dredging in harbor at Block Island, R. I.

TELEPHONE LINE.—Govan, Sask.—Bids will be received by Thomas Kennedy, until noon, June 15, for the construction of 60 miles of telephone line for the Govan Rural Telephone Co.

PLAYGROUND.—Brooklyn, N. Y.—Bids are asked by the Department of Parks until 3 p. m., June 17, for the construction of a playground at Seigel, McKibben and White Sts., Boro. of Brooklyn.

LEVEE.—Memphis, Tenn.—Bids are asked until noon, June 21, by Maj. M. L. Walker, Corps Engrs., U. S. A., for about 475,000 cu. yds. of levee work in Upper and Lower St. Francis levee districts.

DITCH.—Sioux Falls, S. Dak.—Bids will be received until June 4 by Henry Howe, County Audr., for constructing drainage ditch No. 2, requiring about 500,000 cu. yd. excavation. Samuel H. Lea, State Engr., Pierre.

BREAKWATER.—Milwaukee, Wis. — The Board of Park Commissioners has awarded contract for constructing breakwater for Lake Shore Drive, approximately 600 feet, to W. H. GILLEN, Milwaukee, at $28.75 per lineal foot; total, $17,250.

FERRY STEAMER.—Washington, D. C.—Bids will be received by the Quartermaster Gentral, U. S. A., until June 22, for the construction and complete equipment of one double-end steel ferry steamer for harbor service of War Department.

TELEPHONE MATERIAL. — Anaconda, Mont.—The Montana Independent Telephone Co. is in the market for telephone equipment, copper cables, wire and other construction material, aggregating $200,000. Address T. S. Lane, Managing Director.

SHELL.—Washington, D. C.—Bids were received at the Bureau of Ordnance, War Department, for 1,000 cast-steel shell: E. W. BLISS CO., Brooklyn, $17.50 each, awarded contract. Bethlehem Steel Co., South Bethlehem, Pa., $18.95. Midvale Steel Co., Philadelphia, $27.80.

TOWER.—Wilmington, Del.—Bids are asked by the Light House Engineer, Wilmington, Del., until 10 a. m., June 16, for erecting steel tower at Reedy Island Range Rear Light Station, Del. Bids are asked until June 16 for metal iron for this tower, as advertised on May 20.

CRANE.—Norfolk, Va.—Bids are asked by R. C. Holliday, Ch. Bureau Yards and Docks, Navy Dept., Washington, until 11 a. m., June 26, for one locomotive jib crane of 40 gross tons capacity at Norfolk Navy Yard. Specifications are on file for reference at office of Engineering News, New York.

BARGE CANAL.—Albany, N. Y.—The State Canal Board at its meeting on May 26th approved the plans and specifications for Barge Canal Contract No. 53, which is for constructing Lock No. 1, located at Phoenix on the Oswego Canal. It is expected that the work will be advertised within a few weeks.

MONUMENT.—Madison, Wis.—The William Penn Cut Stone Co., a Minnesota Corporation with a capital stock of $188,000 and $100,000 interest in Wisconsin, has filed articles and a statement to operate in this state. This company has been awarded the contract for furnishing all material for the Wisconsin Vicksburg Monument, at $100,000.

DREDGING. — Manitowoc, Wis. — Maj. Charles S. Bromwell, Engr., Ninth Lighthouse District, will recommend to the Department of the Interior that the bid of Ernest Schmidt, at 13 cts. per yard, for dredging Manitowoc Harbor, Manitowoc, Wis., be accepted. Bids were opened in the headquarters, Milwaukee, on May 19.

PIER.—Brooklyn, N. Y.—Bids were received by Allen N. Spooner, Commissioner of Docks, on May 21, for furnishing all the labor and materials required for preparing for and building a new pier between 31st and 32d Sts., Boro. of Brooklyn, to be known as the 31st St. pier. Lowest bidder was Harry R. Wheeler, 23 Clinton Pl., Brooklyn, at $174,587.

GRAND STAND.—St. Paul, Minn.—The Minnesota State Agricultural Society, C. N. Cosgrove, Secy., recently received bids for the general construction of a reinforced concrete steel, fireproof grand-stand to be built at the State Fair grounds here. Reed & Stem, Endicott Bldg., St. Paul, are Archs. Contract has been let to GEO. J. GRANT & SON, N. Y. Life Bldg., St. Paul.

LANDSCAPE WORK.—New York, N. Y.—Bids were received on May 20, as follows, for completing the contract abandoned by Bart Dunn for the landscape work about the building of the College of the City of New York, located on St. Nicholas Terrace and 140th St. and Amsterdam Ave. and 138th St., Borough of Manhattan: John H. Troy, 24 East 34th St.,* $22,055; Kelly & Kelley, $24,298; Benj. J. Tuite, $26,820.

GARBAGE PRIVILEGE.—New York, N. Y.—Bids are asked until noon, June 14, by the Department of Street Cleaning, for contract for the privilege of picking over and appropriating from among the ashes, street sweepings and rubbish in consideration of the work in loading and trimming deck scows, dumpers and other vessels, and feeding and charging the incinerators and leveling and grading at inland dumps and the payment of a sum or sums of money.

*LIGHT-HOUSE.—Cleveland, Ohio.—Bids were received as follows on May 28 by the Light House Engineer, Buffalo, N. Y., for a light-house and an iron beacon at the entrance to Cleveland Harbor: Knobloch & Shelton, Erie, Pa., $42,105; Hunkin Brothers Construction Co., Cleveland, $41,389; New Jersey Foundry & Machine Co., New York, $41,462; G. & W. Mfg. Co., New York, $41,400; Hanahan-King Co., Cleveland, $39,397; Van Dorn Iron Works Co., Cleveland, $39,780.

VESSELS.—Washington, D. C.—Bids were received as follows on May 29 at the office of the Secretary of the Navy, Washington, D. C., for the construction of five torpedo boat destroyers, Nos. 32 to 36 inclusive, to be 742 tons displacement and 29½ knots speed. Unless otherwise specified bids are on one vessel only and time is 24 months. Newport News Shipbuilding & Drydock Co., Newport News, Va., $629,000; Bath Iron Works, Bath, Me., $659,500; New York Shipbuilding Co., Camden, N. J., $648,000, 22 months; Fore River Ship Building Co., Quincy, Mass., $644,000; Wm. Cramp Ship & Engine Building Co., Philadelphia, $637,000; Maryland Steel Co., Sparrow's Point, Md., one $694,000; two, $690,500 each.

BARGE CANAL.—Albany, N. Y.—The Canal Board at its meeting held on May 13, formally cancelled Barge Canal Contract No. 2, held by the Ferguson Contracting Co., of New York. The reason given for this action is that the contractor refused to continue under a changed contract. Frank M. Williams, State Engr. and Surv., having notified the company that the plans had been changed so as to provide for a vertical instead of a sloping wall for the canal, and for a concrete instead of a puddle bottom, the Ferguson Contracting Co. held that the changes amounted to an abrogation of the contract and refused to continue the work. Estimates will at once be made by the State Engineer of the work yet remaining to be done under the contract, and when these are ready, bids will be asked by F. C. Stevens, Supt. of Public Works, for completing the contract. The work is located at Waterford and is for the excavation and protection of the sides of the canal from the Mohawk River to a point about one-quarter of a mile west of the head of Lock No. 3; the construction of Locks Nos. 2 and 3 with the approaches and appertaining parts. The contract was let in 1905, being one of the first Barge Canal contracts awarded and the contract price was about $852,000. About one-quarter of the work yet remains to be done.

U. S. POSSESSIONS.

*VALVES, ETC.—Panama.—Bids are asked until 10.30 a. m., July 1, by the Isthmian Canal Commission, Washington, D. C., for valves for controlling the main culverts of the canal locks, including structural material, castings, bolts, washers, rubber, etc.

LUMBER.—Panama.—The Isthmian Canal Commission, Washington, D. C., has awarded contract for furnishing 600,000 ft. of lumber, No. 1 long leaf yellow pine, at $21, and 2,225,000 ft. of Douglas fir, at $19.50 and $22 per thousand feet, to J. K. Joice, Chicago. Total of contract about $60,000.

*STEEL BARS, CEMENT.—Porto Rico.—Bids are asked by Executive Council of Porto Rico, at San Juan, until noon, June 26, for about 200,000 lbs. of steel bars for concrete reinforcement.

Bids are asked at same time for furnishing and delivering two lots of 1,500 and 6,500 barrels, respectively, of Portland cement, for use in the Porto Rico Irrigation Service. B. M. Hall, Ch. Engr., Porto Rico Irrigation Service.

TOWERS.—Panama.—Bids were received as follows on May 12 by the General Purchasing Officer, Isthmian Canal Commission, Washington, for the construction of 12 movable towers, with the necessary side and back forms, to be used in the building of the walls of the Gatun Locks: Baltimore Bridge Co., Baltimore, Md., $132,616, 200 days; Bergen Point Iron Works, 148 Broadway, New York, $146,960, 300 days; G. & W. Mfg. Co., 26 Cortlandt St., New York, $162,723, 213 days; George W. Jackson, Inc., 179 Jackson Boulevard, Chicago, $270,845, 202 days; U. S. Steel Products Export Co., New York, $126,496, 250 days; Van Dorn Iron Works Co., Cleveland, Ohio, 4.35 cts. per lb.; Ransome Concrete Machinery Co., New York, $217,231, $104,284, 120 days; Penn Bridge Co., Bond Bldg., Washington, $127,345, 180 days.

INDUSTRIAL NOTES.

Mr. Eli T. Conner has opened an office at Room 1126 Real Estate Trust Building, Philadelphia, as a consulting coal mining engineer.

THE C. F. PEASE BLUE PRINT MACHINERY & SUPPLY CO., of Chicago, announces its removal to new quarters at 167 E. Adams St., Chicago.

THE SUIT OF THE EXPANDED METAL CO., OF CHICAGO, against the General Fireproofing Co., of Youngstown, Ohio, for infringement of the Golding patent of 1894, was decided by the Supreme Court of the United States on June 1, in favor of the complainant. The case had been carried to this court from the United States Court of Appeals.

For other Proposal Advertisements see pages 51, 52, 54, 56, of Advertisements and Construction News page 186.

BRIDGE.

Holyoke, Mass.

The Board of Public Works of Holyoke, Mass., will receive at its office in Holyoke until 2 o'clock in the afternoon of Friday, June 18, 1909, sealed proposals for erecting a new bridge across the first level canal on Sargeant Street in said city. At the above time and place the bids so received will be publicly opened and read.

Full information may be had upon application to the office of the Board. Bids must be accompanied by a certified national bank check or lawful money in the sum of Three Hundred Dollars ($300.00). Bids to be addressed to the Chairman, marked "Proposals for Bridges."

The Board reserves the right to reject any or all bids or to accept any bid that in its opinion may be for the best interests of the City of Holyoke.

OSCAR C. FERRY,
Asst. Clerk.

J. L. TIGHE, City Engineer.
Holyoke, Mass., May 28, 1909.

WATER-WORKS AND ELECTRIC LIGHT PLANT.

Delphos, Kansas.

Sealed proposals will be received by the City Clerk of Delphos, Kansas, up to one (1) o'clock P. M. of Wednesday, the twenty-third of June, 1909, for furnishing material and labor and constructing a system of water-works and an electric light plant, separate bids being entertained as follows:

1. For furnishing material and labor (except cast-iron pipe, hydrants, valves, machinery and water tower) and constructing a complete water-works system. Certified check, $300.00.

2. For furnishing cast-iron pipe and special castings f. o. b. cars, Delphos, Kansas. Certified check, $300.00.

3. For furnishing hydrants and valves f. o. b. cars, Delphos, Kansas. Certified check, $100.00.

4 For furnishing material and erecting steel tower and tank, capacity 50,000 gallons, height 80 feet to the bottom of tank. Certified check, $200.00.

5. For furnishing and erecting on foundations furnished by the City, one 25-HP. and one 50-HP. gasoline engines and accessories. Certified check, $150.00.

6. For furnishing and erecting on foundations furnished by the city, one 350 gallon per minute, vertical, triplex power pump. Certified check, $100.00.

7. For furnishing and erecting on foundations furnished by the city, one 20-KW. and one 35-KW. generator with exciter, switchboard and accessories. Certified check, $100.00.

8. For furnishing material and erecting electric light distributing system. Certified check, $200.00.

All of the above materials and work to be furnished and done in accordance with the plans and specifications on file

at the office of the City Clerk, Delphos, Kansas, and at the office of the Engineers, Kansas City, Missouri.

Any one desiring extra copies of the plans and specifications may obtain the same from the Engineers by making a payment of $5.00 to cover the cost of the prints.

The city reserves the right to reject any and all bids.

J. R. ADAMS, Mayor.

THE J. S. WORLEY CO, Engineers.
Kansas City, Missouri.

STATE HIGHWAYS.

STATE OF MARYLAND,
STATE ROADS COMMISSION,
Union Trust Building, Baltimore, Md.
NOTICE TO CONTRACTORS.

SEALED PROPOSALS FOR BUILDING EIGHT SECTIONS OF STATE HIGHWAY, AGGREGATING ABOUT 19 MILES OF STATE HIGHWAY, in the following counties of the State, viz:

Allegheny County—Five miles east from Cumberland to the Six-Mile House, over the road known as the National Pike, or in two sections, one section of 2.4 miles, and the other section about 2.6 miles. Also about one mile from Frostburg west to the Garrett county line, over the National Pike.

Garrett County—About 5.55 miles from the town limits of Oakland toward Thayerville, or two sections, one section of 2.91 miles, and the other section of 2.64 miles.

Prince George's County—About 5.76 miles from Marlboro toward Forestville, or two sections, one section of about 2.84 miles, and the other section of about 2.92 miles.

Hartford County—About 2 miles, from St. Ignatius' Church to Forest Hill.

Will be received by the State Roads Commission, AT ITS OFFICES, Union Trust Building, Baltimore, Md., until 12 o'clock noon, the 11th day of June, 1909, at which time they will be publicly opened and read.

Bids must be made upon blanks to be furnished by the Commission on application, and payment of two dollars. Bids will be received upon any or all of said sections.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond, and comply with the Act of the General Assembly of Maryland of 1908, Chapter 141, respecting contracts.

The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission, this 27th day of May, 1909.

J. C. BOWERMAN,
Secretary.
JOHN M. TUCKER,
Chairman.

RELINING RESERVOIR, COVERING RESERVOIRS AND BUILDING DAM AND STABLE.

Reading, Pa.

Sealed proposals will be received by the Board of Water Commissioners at 25 N. 11th St., Reading, Pa., on or before 7.30 o'clock P. M., Tuesday, June 22, 1909, separately, for the following work:

Relining and Covering Buttonwood St. Reservoir; capacity one million gallons.

Covering Penn St. Reservoirs, with concrete vaulting; Capacity 5,800,000 gallons.

Building Glen Gery Dam, 8½ to 11 feet high, 200 feet long.

Building Brick Stable and Wagon House, 22 feet x 123 feet 9 inches.

Proposal blanks, plans and specifications can be had by remitting $5.00 for each separate piece of work to Emil L. Nuebling, Superintendent and Engineer, Reading, Pa. Proposal bonds and certificate of sureties will be exacted from each bidder. The Board reserves the right to reject any or all proposals.

EDWARD ELBERT.

Attest:
LINCOLN S. RAMSEY, Secretary.

SECTIONS OF SEWER.

Board of Trustees,
Village of South Nyack, N. Y.

Sealed proposals will be received at the office of the Board of Trustees, Village of South Nyack, N. Y., until seven o'clock P. M., June 10, 1909, for the complete construction of and furnishing of all materials for the following sections of sewer in said Village of South Nyack, N. Y., to-wit:

1. A sewer in Mansfield avenue extending from Broadway to Hillside Avenue, a distance of 629.6 lineal feet.
2. A sewer in Chase Avenue, extending from Mansfield Avenue to Cornelison Avenue, a distance of 283 lineal feet.
3. A sewer in Clinton Avenue, extending from Hillside Avenue to Piermont Avenue, a distance of 1,710 lineal feet.
4. A sewer in Franklin Street, extending from Washington Avenue to Clinton Avenue, a distance of 669 lineal feet.
5. A sewer in Willow Avenue, extending from Hillside Avenue to Franklin Street, a distance of 615.5 lineal feet.
6. A sewer in Hillside Avenue, extending from Elysian Avenue to Cedar Hill Avenue, a distance of 423 lineal feet.
7. A sewer in Elysian Avenue, extending from Hillside Avenue to Maple Street, a distance of 400. lineal feet.

Bidders must use the printed form of proposal furnished by the trustees.

Information to bidders, form of proposal, contract and specifications may be had on application to the Clerk of the Village of South Nyack, N. Y.

Plans for the construction of said sections of sewer are attached to and form a part of the specifications.

By order of the Board of Trustees of the Village of South Nyack, N. Y.

Dated, May 25, 1909.

CHARLES McELROY,
President.

A. THEMANS,
Village Clerk.

SEWER OUTLET.

Office of the Commissioners of Sewerage of Louisville, Ky.
Incorporated.

Sealed proposals for the construction of the Thirty-fourth Street Outlet Sewer, Contract No. 44, of the Comprehensive System of Sewerage for the City of Louisville, Ky., will be received at the office of the Commissioners of Sewerage until 12 o'clock noon, July 2d, 1909.

The work will consist of the construction of a 7 ft. reinforced concrete sewer outlet into the Ohio River at Thirty-fourth Street.

This section is 600 ft. long and will include about 1,000 cu. yds. of concrete and about 8,000 ft. of piles.

Plans and specifications may be seen at the office of the Commissioners and at the office of Harrison P. Eddy, 14 Beacon St., Boston, Mass.

Sealed bids should be endorsed "Proposal for Thirty-fourth Street Outlet Sewer" and addressed to the Commissioner of Sewerage, Equitable Building, Louisville, Ky. Each bid must be accompanied by a certified check for at least seven per cent. (7%) of the total amount of the bid, or a "Bidder's Bond," as described in the form of proposal.

W. C. NONES, Chairman.
CHAS. P. WEAVER, Secy. & Treas.
J. B. F. BREED, Chief Engineer.

SEALED PROPOSALS will be received at the office of the Executive Council of Porto Rico, San Juan, Porto Rico, until 12 o'clock noon, June 26, 1909, for furnishing and delivering about 200,000 pounds of steel bars for concrete reinforcement. Specifications and proposal blanks may be obtained from the Commissioner of the Interior, San Juan, P. R.; Office of the Chief Engineer, Guayama, P. R.; or from the U. S. Reclamation Service, Washington, D. C. The right is reserved to reject any and all bids. B. M. HALL, Chief Engineer, Porto Rico Irrigation Service.

GRADING, ETC., Office Constructing Quartermaster, Fort Totten, N. Y., May 26, 1909.—Sealed proposals in triplicate for 2,100 cu. yds. excavation, laying 480 feet of sewer and 100 sq. feet concrete walk at Fort Totten, N. Y., will be received at this office until 11 a. m., June 22, 1909, and then publicly opened. Plans, specifications and information furnished by this office upon request. Envelopes containing proposals to be marked "Proposal for Grading, Drain and Walk," and addressed "Constructing Quartermaster, Fort Totten, N. Y."

REPAIRING BRIDGE.

Holyoke, Mass.

The Board of Public Works of Holyoke, Mass., will receive at its office in Holyoke until 2 o'clock in the afternoon of Friday, June 18, 1909, sealed proposals for repairing the Dwight Street footbridge, and at the above time and place will publicly open and read the proposals so received.

Full information may be had at the office of the Board. Bids must be accompanied by a certified national bank check or lawful money of the United States in the sum of Fifty Dollars ($50.00). Bids to be addressed to the Chairman, marked "Proposals for Repairing Bridge."

The Board reserves the right to reject any or all bids or to accept any bid that in its opinion may be for the best interests of the City of Holyoke.

OSCAR C. FERRY,
Asst. Clerk.

J. L. TIGHE, City Engineer.
Holyoke, Mass., May 28, 1909.

Department of Public Works,
Bureau of Surveys,
Office 412 City Hall,
Philadelphia, May 29, 1909.

Sealed proposals, endorsed "Bids for Bridges," and addressed to the undersigned, at the office above mentioned, will be received until 12 o'clock, noon, on Thursday, June 17, 1909, for Schedule A. Bridges.

Specifications and blank forms upon which bids must be made, will be furnished upon application to the Chief Engineer, Room 416 City Hall.

Bidders must be skilled and regularly engaged in the class of work bid for.

No bid will be considered unless accompanied by a certificate from the City Solicitor that the provisions of an ordinance requiring proposal bonds when the bids exceed in amount five hundred dollars, approved May 25, 1860 (p. 81, West), have been complied with.

The Director reserves to himself the right to reject any or all bids, as he may deem best for the interests of the city.

GEO. R. STEARNS,
Director.

PROPOSALS FOR VALVES FOR CONtrolling the Main Culverts of the Canal Locks, including Structural Material, Castings, Bolts, Washers, Rubber, etc. —Sealed proposals will be received at the office of the General Purchasing Officer, Isthmian Canal Commission, Washington, D. C., until 10.30 a. m., July 1, 1909, at which time they will be opened in public, for furnishing the above-mentioned articles. Blanks and general information relating to this Circular (No. 515), may be obtained from this office or the offices of the Assistant Purchasing Agents, 24 State Street, New York City; 316 Hibernia Bank Building, New Orleans, La., and 1086 North Point Street, San Francisco, Cal.; also from the U. S. Engineer Offices in the following cities: Seattle, Wash.; Los Angeles, Cal.; Baltimore, Md.; Philadelphia, Pa.; Pittsburg, Pa.; Boston, Mass.; Buffalo, N. Y.; Cleveland, Ohio; Cincinnati, Ohio; Chicago, Ill.; St. Louis, Mo.; Detroit, Mich.; Milwaukee, Wis.; St. Paul, Minn.; Chattanooga, Tenn.; Louisville, Ky.; Mobile, Ala.; and Galveston, Tex.; Commercial Club, Kansas City, Mo.; Chamber of Commerce, Quincy, Ill., and Chamber of Commerce and Board of Trade, Tacoma, Wash.—F. C. BOGGS, Captain, Corps of Engineers, U. S. A., General Purchasing Officer.

SEALED PROPOSALS will be received at the office of the Executive Council of Porto Rico, San Juan, Porto Rico, until 12 o'clock, noon, June 26, 1909, for furnishing and delivering two lots of 1,500 and 6,500 barrels, respectively, of Portland cement, for use in the Porto Rico Irrigation Service. Specifications and proposal blanks may be obtained from the Commissioner of the Interior, San Juan, P. R.; Office of the Chief Engineer, Guayama, P. R., or from the U. S. Reclamation Service, Washington, D. C. The right is reserved to reject any and all bids. B. M. HALL, Chief Engineer, Porto Rico Irrigation Service.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., June 1, 1909.—Sealed proposals will be received at this office until 3 o'clock p. m. on the 9th day of July, 1909, and then opened, for the construction (including plumbing, gas-piping, heating, apparatus, electric conduits and wiring) of the U. S. Post Office at Corsicana, Texas, in accordance with drawings and specification, copies of which may be had from the custodian of site at Corsicana, Texas, or at this office, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect.

CONSTRUCTING QUARTERMASTER'S OFFICE, FORT MEADE, S. D., June 1st, 1909.—Sealed proposals, in triplicate, will be received at this office until 10 A. M., Mountain Time, July 2d, 1909, and then opened for constructing Intake Dam and Pipe Line for water system at Fort Meade. Plans and specifications may be seen by intending bidders at the offices of the Chief Quartermaster, Department of the Missouri, Omaha, Neb.; Department of the Colorado, Denver, Colo.; Department of the Lakes, Chicago, Ill.; Department of the Dakota, St. Paul, Minn., and this office, at which latter place all information may be obtained upon application. A deposit of $10.00, to insure return, is required before plans are sent on individual application. The United States reserves the right to reject any or all bids or to accept any part of a bid that may be advantageous to the government. Envelopes containing proposals should be endorsed "Proposals for Intake Dam and Pipe Line" and addressed to the CONSTRUCTING QUARTERMASTER, Fort Meade, South Dakota.

FORT MONROE, VA., May 29th, 1909. Sealed proposals, in triplicate, will be received until 10.00 A. M., June 30, 1909, for the construction, heating, plumbing, electrical wiring and fixtures of two sets of quarters for four officers at Fort Monroe, Va. Information on application. Bidders may see plans and specifications in Office Chief Quartermaster, Department of East, Governor's Island, N. Y. Bidders on proposals must state names of manufacturers supplying them with material. Deposit of certified check $25.00 guaranty return plans and specifications. United States reserves the right to accept or reject any or all bids or any part thereof. Bids must be enclosed in sealed envelopes plainly marked as such and addressed to ERNEST R. TILTON, Captain & Q. M., U. S. A., Constg. Q. M.

FORT DUPONT, DELAWARE CITY, DEL., May 25, 1909.—Sealed proposals, in triplicate, will be received here until 11 a. m., June 25, 1909, for construction of Macadam roads, granolithic sidewalks, curb and gutter, and fill, at Fort Du Pont, Del. Information furnished upon application. Plans and specifications can be seen here and also in the office of the Chief Quartermaster, Department of the East, Governor's Island, N. Y. A deposit of $5.00 required on each set of plans and specifications loaned. U. S. reserves right to accept or reject any or all bids or any part thereof. Envelopes containing bids should be indorsed "Proposals for Roads, Walks, etc.," and addressed to Constructing Quartermaster, U. S. A., Fort Du Point, Del.

WEST POINT, N. Y., May 31, 1909.—Sealed proposals, in triplicate, will be received here until 12 o'clock noon, June 21, 1909, for furnishing and installing Electric and Combination Gas and Electric Light Fixtures in the Post Headquarters Building, as per drawings and specifications in this office. The United States reserves the right to accept or reject any or all proposals or any part thereof. Forms for proposals furnished upon application. Address QUARTERMASTER, West Point, N. Y.

Situations Open

Experienced Assistant

WANTED

in factory building work in New York engineering office. References must be noted. Address "W. A. 22," Construction Department, Engineering News, New York. 22-1t

FOR SALE

For Sale

Two new ten-ton Buffalo-Pitts, and one new ten-ton Kelley-Springfield, three-wheel road rollers; one number two Foote continuous concrete mixer, mounted with traction. Eight two-yard Troy wagons. Six two-yard Watson wagons; sixty steel Tray wheelbarrows; three rooter plows; three large grading plows; one six hundred-gallon and one four hundred and fifty-gallon Studebaker sprinklers, Niagara spray; one five hundred-gallon Austin Sprinkler, all new; one Marsh pump, new, never used, two and one-half inch suction; one tar pot on wheels; one 5-ton reversible horse roller; one 6 x 10 Flory double drum hoist with boiler, new; two forty-foot derricks complete; three scale boxes; one yard bucket; one number two and one-half Climax crusher mounted with folding elevator; one twenty-horse engine on twenty-five-horse boiler, mounted; one forty-ton bin with eleven-foot screen, with chain and belts all complete and working; also large amount of small tools and steel, batteries, picks, shovels, bars, etc. All of above outfit is nearly new and in first-class condition, and will be sold cheap. Address

Edward H. Post

53 Bennett Bldg., Wilkes-Barre, Pa.

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